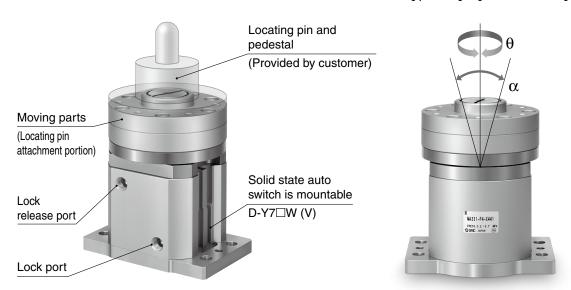
Center Lock Unit

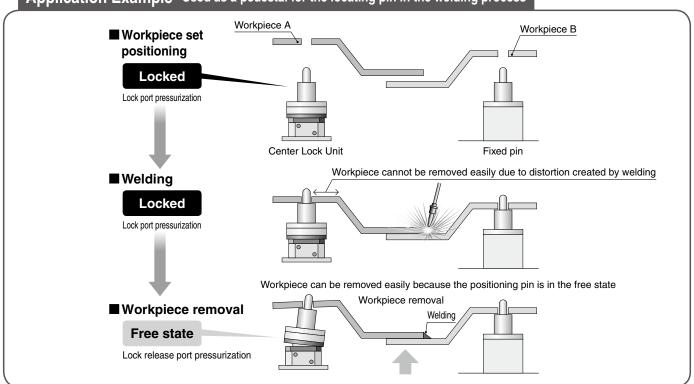
Locating pin workpiece contact portion can switch from center lock (for locating) to free (for releasing workpiece)

Even when the workpiece is distorted after welding, if the locating pin is set to free, the workpiece can be removed easily from the locating pin.

- The locating pin changes to center lock by pressurization of the lock port, and changes to free by pressurization of the lock release port.
- Center lock positioning accuracy \pm **0.1** mm (α direction only)
- Locating pin swing angle and rotation angle $\alpha = 3^{\circ} \pm 1^{\circ}$
 - $\theta = 3^{\circ} \pm 1^{\circ}$







Center Lock Unit

MA331-X441

How to Order

MA331-F4-Y7BW -X441



Auto switch

Without auto Switch (Built-in magnet)	Nil Without auto switch (Built-in magnet
---------------------------------------	--

^{*:} For applicable auto switches, refer to the table below.

Number of auto switches

Nil	2
S	1
n	n

Applicable Auto Switches: Refer to the WEB catalog for further information on auto switches.

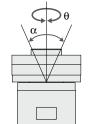
			ight		Load voltage			Auto switch model		Lead wire length [m]						
Type Special function		Electrical entry	Indicator light	Wiring (Output)	[С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applicable load	
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V		Y7NWV	Y7NW	•	0	•	•	0	IC	
				3-wire (PNP)			_	Y7PWV	Y7PW •	• 0	•	•	0	circuit		
						12 V		Y7BWV	Y7BW	•	0	•	•	0		Relay, PLC
	Water resistant (2-color indicator)			2-wire				_	Y7BA	_	_	•	•	0	_	. 20
	Magnetic field resistant			2-wire (Non-polar)		_		_	Y7DWSC*1	_	_	_	_	0		

- *1: Lead wire length is 0.3 m, wiring (pin numbers used) consists of two wires (3-4).
- $\ast :$ Solid state auto switches marked with "O" are produced upon receipt of order.
- *: For details about auto switches with pre-wired connectors, refer to the WEB catalog.
- *: Auto switches are shipped together, but not assembled.

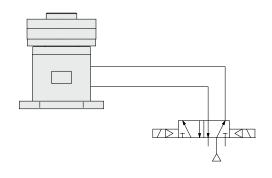
- *: Lead wire length symbols: 0.5 m······Nil (Example) Y7NW
 - 3 m······ L (Example) Y7NWL 5 m····· Z (Example) Y7NWZ

Specifications

Maximum load weight	20 kg
Handling	Double acting
Handling air pressure	0.2 to 0.7 MPa
Proof pressure	1.05 MPa
Ambient and fluid temperature	0 to 60°C
Center lock positioning accuracy	±0.1 mm (α direction)
Moment resistance (Theoretical value)	117 N·m (at 0.5 MPa)
Torque resistance (Theoretical value)	6.3 N⋅m (at 0.5 MPa)
Swing angle (a) (See the figure below.)	3° ±1°
Rotation angle (θ) (See the figure below.)	3° ±1°
Weight	3100 g



Circuit Diagram

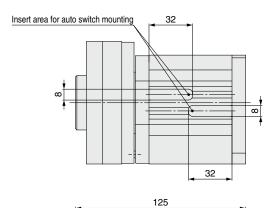


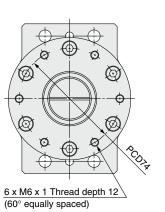
Center Lock Unit MA331-X441

Dimensions

MA331-F4-X441







060 8 35 81 10

