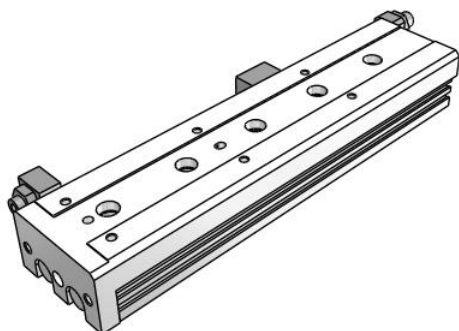


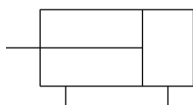


## MXS, Air Slide Table, Cross Roller Guide

### MXS12-100A

#### Datasheet

Applications that call for precise movement ranging from 10-150mm (1/2-6") typically require a cylinder and a precision guide. The MXS accomplishes this by integrating a cross roller bearing with a guide and two small air cylinders for compact force generation. The MXS is available in six sizes each with set stroke lengths and is standard with auto switch capability. Stroke adjustments are available for extend, retract, or both in ranges of 0-5mm, 0-15mm, and 0-25mm. In addition, there are many other standard options that include, shock absorbers, end lock, axial piping, and buffer.

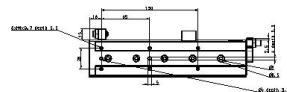
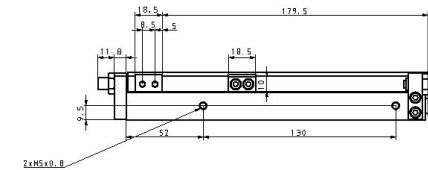
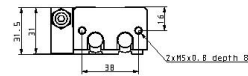
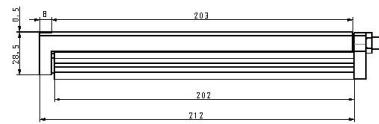
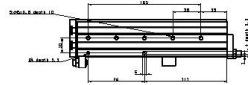
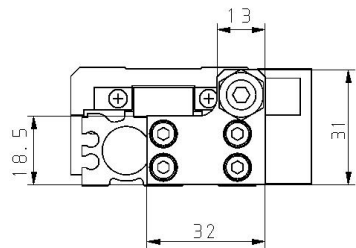


Double-acting, single-rod cylinder

## Standard specifications

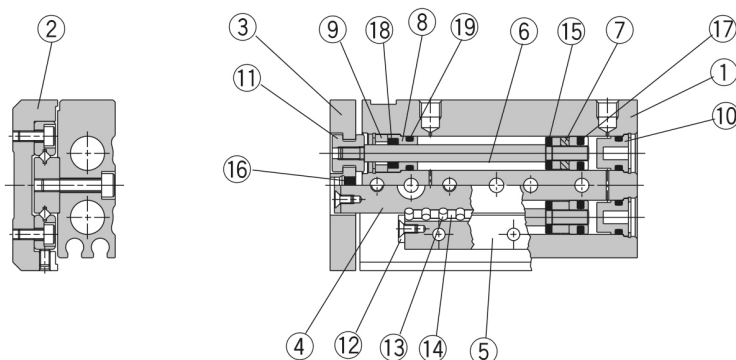
|                                                    |                                                        |
|----------------------------------------------------|--------------------------------------------------------|
| Bore Size                                          | 12mm                                                   |
| Port Thread                                        | Rc                                                     |
| Stroke                                             | 100mm                                                  |
| Adjuster                                           | A (Both Sides Adjusters)                               |
| Function                                           | Standard                                               |
| Auto Switch                                        | No Switch                                              |
| Lead Wire or Prewired Connector                    | 05 M Lead Wire [Or None in the Case of No Auto Switch] |
| Number                                             | 2 pcs. [Or None in the Case of No Switch]              |
| Pressure medium                                    | Air                                                    |
| Maximum temperature of pressure medium with magnet | 60 °C                                                  |
| Minimum temperature of pressure medium with magnet | -10 °C                                                 |
| Maximum operating pressure                         | 0.7 MPa                                                |
| Minimum operating pressure                         | 0.15 MPa                                               |
| Proof pressure                                     | 1.05 MPa                                               |
| Maximum ambient temperature with magnet            | 60 °C                                                  |
| Minimum ambient temperature with magnet            | -10 °C                                                 |
| Conform to the European RoHS Directive             | Conform                                                |
| Number of pneumatic connections                    | 2 pcs.                                                 |

|                                                         |               |
|---------------------------------------------------------|---------------|
| Pneumatic input connection                              | M5            |
| Mode of operation of drive                              | Double acting |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 113 N         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 85 N          |
| Maximum piston speed                                    | 500 mm/s      |
| Type of cushioning                                      | Rubber bumper |
| Maximum stroke reduction per side                       | 5 mm          |
| Minimum piston speed                                    | 50 mm/s       |
| Lubrication                                             | Non-lube      |
| Weight                                                  | 0.930 Kg      |



## Constructions

### Construction

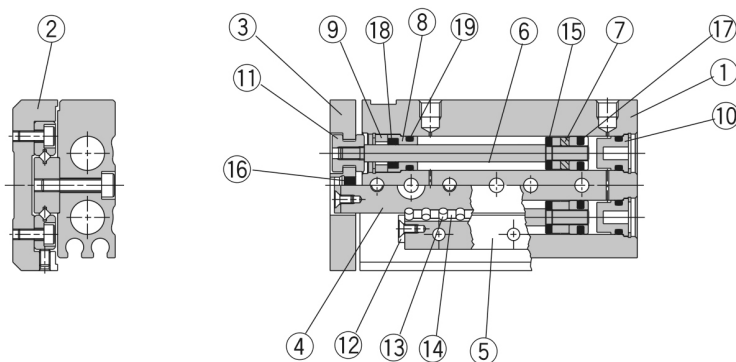


#### Component Parts

| No. | Description        | Material                         | Note                      |
|-----|--------------------|----------------------------------|---------------------------|
| ①   | Body               | Aluminum alloy                   | Hard anodized             |
| ②   | Table              | Aluminum alloy                   | Hard anodized             |
| ③   | End plate          | Aluminum alloy                   | Hard anodized             |
| ④   | Rail               | Carbon tool steel                | Heat treated              |
| ⑤   | Guide              | Carbon tool steel                | Heat treated              |
| ⑥   | Rod                | Stainless steel                  |                           |
| ⑦   | Piston assembly    |                                  | With magnet on one side   |
| ⑧   | Rod cover          | Aluminum alloy                   | Anodized                  |
| ⑨   | Seal support       | Brass                            | Electroless nickel plated |
| ⑩   | Head cap           | Resin                            |                           |
| ⑪   | Floating bushing   | Stainless steel                  |                           |
| ⑫   | Roller stopper     | Stainless steel                  |                           |
| ⑬   | Cylindrical roller | High carbon chrome bearing steel |                           |
| ⑭   | Roller spacer      | Resin                            |                           |
| ⑮   | Rod bumper         | Polyurethane                     |                           |
| ⑯   | End bumper         | Polyurethane                     |                           |
| ⑰   | Piston seal        | NBR                              |                           |
| ⑱   | Rod seal           | NBR                              |                           |
| ⑲   | O-ring             | NBR                              |                           |

## Constructions

## Construction



### Component Parts

| No. | Description        | Material                         | Note                      |
|-----|--------------------|----------------------------------|---------------------------|
| ①   | Body               | Aluminum alloy                   | Hard anodized             |
| ②   | Table              | Aluminum alloy                   | Hard anodized             |
| ③   | End plate          | Aluminum alloy                   | Hard anodized             |
| ④   | Rail               | Carbon tool steel                | Heat treated              |
| ⑤   | Guide              | Carbon tool steel                | Heat treated              |
| ⑥   | Rod                | Stainless steel                  |                           |
| ⑦   | Piston assembly    |                                  | With magnet on one side   |
| ⑧   | Rod cover          | Aluminum alloy                   | Anodized                  |
| ⑨   | Seal support       | Brass                            | Electroless nickel plated |
| ⑩   | Head cap           | Resin                            |                           |
| ⑪   | Floating bushing   | Stainless steel                  |                           |
| ⑫   | Roller stopper     | Stainless steel                  |                           |
| ⑬   | Cylindrical roller | High carbon chrome bearing steel |                           |
| ⑭   | Roller spacer      | Resin                            |                           |
| ⑮   | Rod bumper         | Polyurethane                     |                           |
| ⑯   | End bumper         | Polyurethane                     |                           |
| ⑰   | Piston seal        | NBR                              |                           |
| ⑱   | Rod seal           | NBR                              |                           |
| ⑲   | O-ring             | NBR                              |                           |

## Additional information

Catalogue

[MXS\\_EU.pdf](#)