

## Round cylinder, double-acting, Piston Ø 12, Stroke 125, M5 - Riegler 105767

Item no. RGL-105767

Manufacturer Riegler

EAN 4047322010566

Round cylinder, double-acting, Piston Ø 12, Stroke 125, M5

### TECHNICAL DATA

|                             |               |
|-----------------------------|---------------|
| Betriebsdruck max [bar]     | 10.000000     |
| Bore (mm)                   | 12.000000     |
| Country of Manufacture      | Italy         |
| Function                    | double-acting |
| Norm                        | ISO 6432      |
| Piston Ø [mm]               | 12            |
| Pneumatic connection        | M5            |
| Seal material               | NBR           |
| Set pressure [bar]          | 0,8           |
| Stroke [mm]                 | 125           |
| Weight                      | 0.13 kg       |
| Working pressure max. [bar] | 10            |
| Zolltarifnummer             | 84123100      |



### STANDARDS & COMPLIANCE

ISO 6432

### DESCRIPTION

Round cylinder, ISO 6432, double-acting, Magnet, Piston Ø 12, Stroke 125, M5, Working pressure max. 10 bar, Temp. -10 °C to 80 °C Single and double-acting cylinders, with magnetic piston. Suitable for filtered, unlubricated or lubricated compressed air. If lubrication is used, it must be continuous.

### TECHNICAL DATA

|                               |               |
|-------------------------------|---------------|
| <b>Max. working pressure</b>  | 10 bar        |
| <b>Min. set pressure</b>      | 0.8 bar       |
| <b>Min. temperature range</b> | -10 °C        |
| <b>Max. temperature range</b> | 80 °C         |
| <b>Sealant</b>                | NBR           |
| <b>Magnet</b>                 | with magnet   |
| <b>Function</b>               | double-acting |
| <b>Cushioning</b>             | non-cushioned |

|                          |                                                        |
|--------------------------|--------------------------------------------------------|
| <b>Piston rod thread</b> | male piston rod                                        |
| <b>Tube</b>              | Stainless steel 1.4301                                 |
| <b>Design</b>            | flanged joint between stainless steel barrel and heads |
| <b>Piston Ø</b>          | 12 mm                                                  |
| <b>Stroke</b>            | 125 mm                                                 |
| <b>Connection</b>        | M5                                                     |
| <b>Piston rod</b>        | C45 steel, hard chrome-plated                          |
| <b>Piston rod thread</b> | M6                                                     |
| <b>Piston</b>            | synthetic (acetal) resin                               |

## STANDARDS AND ORIGIN

- Standard: acc. to ISO 6432
- Customs tariff number: 84123100
- Country of origin: IT

## ABOUT ROUND CYLINDERS

Round cylinders produce linear motion where installation space is tight and profile mounting is not needed. The group covers piston diameters from 8 to 40 mm and strokes from 10 to 600 mm. Working pressure tops out at 10 bar.

## WHAT MATTERS WHEN CHOOSING

- Piston diameter: From 8 to 40 mm. Together with the applied pressure it defines the force, so it comes first in sizing, ahead of the stroke.
- Stroke: 10 to 600 mm. Long strokes on a small piston load the rod in buckling, and a separate guide next to the cylinder pays off in that case.
- Function: Double-acting or single-acting. Single-acting versions need only one line and return by spring, double-acting versions deliver force in both directions.
- Working pressure: The lower limit is 1 to 2 bar depending on version, the upper limit 10 bar. Part of the range also states a set pressure of 0.6 to 0.8 bar, which matters for slow feed movements.
- Connection: M5, M5x0.8, G 1/8 and G 1/4 are available. The port has to suit the tube cross section, otherwise it limits the speed that can be reached.

## TYPICAL APPLICATIONS

- Clamping and holding fixtures at assembly stations.
- Diverters and reject gates in conveying equipment.
- Feed movements on test and measuring fixtures.
- Opening and closing flaps and slide gates on machines.
- Handling axes with little space and moderate force demand.

A large part of the 356 items is built to ISO 6432, which makes replacement by cylinders from other suppliers straightforward. NBR is listed as sealing material, and production takes place in China and Italy.