

Round cylinder, single-acting, Piston Ø 8, Stroke 50, M5 - Riegler 105824

Item no. RGL-105824

Manufacturer Riegler

EAN 4047322010894

Round cylinder, single-acting, Piston Ø 8, Stroke 50, M5

TECHNICAL DATA

Betriebsdruck max [bar]	10.000000
Bore (mm)	8.000000
Country of Manufacture	Italy
Function	single-acting
Norm	ISO 6432
Piston Ø [mm]	8
Pneumatic connection	M5
Seal material	NBR
Set pressure [bar]	0,8
Stroke [mm]	50
Weight	0.053 kg
Working pressure max. [bar]	10
Zolltarifnummer	84123100



STANDARDS & COMPLIANCE

ISO 6432

DESCRIPTION

Round cylinder, ISO 6432, single-acting, Magnet, Piston Ø 8, Stroke 50, 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

Max. working pressure	10 bar
Min. set pressure	0.8 bar
Min. temperature range	-10 °C
Max. temperature range	80 °C
Sealant	NBR
Magnet	with magnet
Function	single-acting
Starting position	pressureless in the retracted position

Cushioning	non-cushioned
Piston rod thread	male piston rod
Tube	Stainless steel 1.4301
Design	flanged joint between stainless steel barrel and heads
Piston Ø	8 mm
Stroke	50 mm
Connection	M5
Piston rod	C45 steel, hard chrome-plated
Piston rod thread	M4
Piston	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

A1-ESD equipment

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Italy.