

Round cylinder »MSI« single-acting, PistonØ 10, Stroke 50, M5x0.8 - Riegler 114940

Item no. RGL-114940

Manufacturer Riegler

EAN 4047322316613

Round cylinder »MSI« single-acting, PistonØ 10, Stroke 50, M5x0.8

TECHNICAL DATA

Betriebsdruck max [bar]	10.000000
Bore (mm)	10.000000
Country of Manufacture	China
Function	single-acting
Norm	ISO 6432
Piston Ø [mm]	10
Pneumatic connection	M5x0,8
Seal material	NBR
Series	Serie MSI
Stroke [mm]	50
Weight	0.08 kg
Working pressure max. [bar]	10
Zolltarifnummer	84123100



STANDARDS & COMPLIANCE

ISO 6432

DESCRIPTION

Round cylinder »MSI«, single-acting, Magnet, Piston Ø 10, Stroke 50, M5x0.8, Working pressure 2 - 10 bar, Temp. -20 °C to 70 °C These round cylinders are available in the following versions: - »MI« Series, double-acting, Ø 8 to 25 acc. to ISO 6432 - »MI« Series, double-acting, Ø 32 to 40 - »MSI« Series, single-acting, pressureless in the retracted position, Ø 32 to 40 Suitable for filtered, unlubricated or lubricated compressed air. If lubrication is used, it must be continuous. »CA« type = bottom cover with male thread - hinge model»CM« type = bottom cover with male thread, round - hinge model

TECHNICAL DATA

Min. working pressure	2 bar
Max. working pressure	10 bar
Min. temperature range	-20 °C
Max. temperature range	70 °C
Sealant	NBR

A1-ESD equipment

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Page 1/3

Magnet	with magnet
Function	single-acting
Series	MSI series
Type	CA type
Starting position	pressureless in the retracted position
Cushioning	non-cushioned
Piston rod thread	male piston rod
Tube	Stainless steel 1.4301
Piston Ø	10 mm
Stroke	50 mm
Connection	M5x0.8
Piston rod	Stainless steel 1.4301
Piston rod ET	M4x0.7
Piston rod-Ø	4 mm
Piston	stainless steel 1.4305

STANDARDS AND ORIGIN

- Customs tariff number: 84123100
- Country of origin: CN

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.

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Page 2/3

- 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.