

Round cylinder TP double-acting, Piston Ø 25, Stroke 125, G 1/8 - Riegler 105725

Item no. RGL-105725

Manufacturer Riegler

EAN 4047322288606

Round cylinder TP double-acting, Piston Ø 25, Stroke 125, G 1/8

TECHNICAL DATA

Betriebsdruck max [bar]	10.000000
Bore (mm)	25.000000
Country of Manufacture	Italy
Function	double-acting
Norm	ISO 6432
Piston Ø [mm]	25
Pneumatic connection	G1/8
Series	Serie TP
Set pressure [bar]	0,6
Stroke [mm]	125
Weight	0.244 kg
Working pressure max. [bar]	10
Zolltarifnummer	84123100



STANDARDS & COMPLIANCE

ISO 6432

DESCRIPTION

Round cylinder TP (ISO 6432) double-acting, Piston Ø 25, Stroke 125, G 1/8, Working pressure max. 10 bar, Temp. -10 °C to 60 °C Inexpensive standard version with aluminum pipe and magnet piston. Suitable for filtered (50 µm), unlubricated or lubricated compressed air. If lubrication is used, it must be continuous.

TECHNICAL DATA

Max. working pressure	10 bar
Min. set pressure	0.6 bar
Min. temperature range	-10 °C
Max. temperature range	60 °C
Magnet	with magnet
Function	double-acting
Series	TP series
Cushioning	non-cushioned

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Page 1/3

Piston rod thread	male piston rod
Tube	Aluminium alloy, anodised
Piston gasket	PU
Piston rod gasket	PU
Design	connection: aluminium pipe / end caps flanged
Cap	Technopolymer
Bottom	technopolymer
Bushing	technopolymer
Piston Ø	25 mm
Stroke	125 mm
Connection	G 1/8
Piston rod	C45 steel, hard chrome-plated
Piston rod ET	M10x1.25

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.