544002

Industrial automation components

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Manufacturer	Festo
Catalog number	544002
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Stroke	80 mm
Piston Diameter	20 mm
Theoretical Force (Advance Stroke)	188 N
Operating Pressure	1 to 8 bar
Adjustable End Position Range (Front)	71.5 mm
Adjustable End Position Range (Rear)	38.5 mm
Maximum Speed	0.8 m/s
Position Detection	Proximity Sensor
Material	Wrought Aluminum Alloy Housing, HNBR Seals

Description

The Festo 544002, also known as DGSL-16-80-Y3A, is a compact, double-acting pneumatic mini slide actuator designed for precise linear motion in industrial automation applications. With a 20 mm piston diameter and an 80 mm stroke, it delivers a theoretical force of 188 N at 6 bar during the advance stroke. The actuator features progressive pneumatic shock absorbers at both ends, ensuring smooth operation and reducing impact forces. Its ball-bearing cage guide provides high load capacity and accuracy, making it suitable for applications requiring compact design and reliable performance. The actuator operates within a pressure range of 1 to 8 bar and offers adjustable end-position ranges of 71.5 mm at the front and 38.5 mm at the rear. It is compatible with proximity sensors for position

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detection and has a maximum speed of 0.8 m/s. The actuator is constructed with a wrought aluminum alloy housing and HNBR seals, ensuring durability and resistance to wear. It operates in ambient temperatures ranging from 0°C to 60°C and is suitable for use with lubricated compressed air, as specified by ISO 8573-1:2010 [7:4:4].

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