532447

Industrial automation components

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Manufacturer	Festo
Catalog number	532447
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Stroke Length	1 mm to 8500 mm
Piston Diameter	25 mm
Mounting Position	Any
Guide Type	Plain-bearing guide, Basic guide, Recirculating ball bearing guide
Cushioning Type	Elastic cushioning rings/plates at both ends, Pneumatic cushioning, adjustable at both ends, Shock absorber, hard characteristic curve, Shock absorber, soft characteristic curve
Operating Pressure	0.2 MPa to 0.8 MPa
Mode of Operation	Double-acting
Position Sensing	For proximity sensor
Explosion Protection	Zone 1 (ATEX), Zone 1 (UKEX), Zone 2 (ATEX), Zone 22 (ATEX), Zone 22 (UKEX)
ATEX Category Gas	II 2G
ATEX Category Dust	II 3D

Description

The Festo DGC-25 Linear Drive (Part Number: 532447) is a versatile pneumatic actuator designed for precise linear motion in industrial automation applications. Featuring a 25 mm piston diameter and a stroke length ranging from 1 mm to 8500 mm, it offers flexibility to meet various operational requirements. The actuator supports multiple mounting positions and provides options for different

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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guide types, including plain-bearing, basic, and recirculating ball bearing guides, allowing customization based on application needs. Cushioning options include elastic cushioning rings/plates at both ends, adjustable pneumatic cushioning, and shock absorbers with hard or soft characteristic curves, ensuring smooth and controlled motion. The DGC-25 operates within a pressure range of 0.2 MPa to 0.8 MPa (2 bar to 8 bar) and functions as a double-acting actuator. It is equipped with position sensing capabilities via proximity switches, enhancing precision in motion control. The actuator complies with EU Explosion Protection Directive (ATEX) and UK EX instructions, making it suitable for use in explosive environments. It is certified for Zone 1 (ATEX), Zone 1 (UKEX), Zone 2 (ATEX), Zone 22 (ATEX), and Zone 22 (UKEX) areas, with ATEX categories II 2G for gas and II 3D for dust. The explosion ignition protection types are Ex h IIC T4 Gb X for gas and Ex h IIIC T120°C Dc X for dust, with an ambient temperature range of -10°C to +60°C. The actuator operates using compressed air in accordance with ISO 8573-1:2010 [7:-:-], and lubricated operation is possible, with lubrication always required in such cases.