

Linear actuator DGCI-18- -

Part number: 544425

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	100 mm ... 2000 mm
Stroke, servopneumatic positioning	100 mm ... 2000 mm
Soft Stop stroke	100 mm ... 2000 mm
Stroke reduction in the end positions	20 mm
Shortest positioning stroke	3% of max. stroke Maximum 20 mm, however
Piston diameter	18 mm
Cushioning	Pneumatic shock absorber, hard characteristic curve Pneumatic shock absorber, soft characteristic curve
Mounting position	Any
Guide	Recirculating ball bearing guide
Position sensing	With linear potentiometer attached
Variants	Additional slide, standard, on left Additional slide, standard on right
Operating pressure	0.2 MPa ... 0.8 MPa
Operating pressure	2 bar ... 8 bar
Operating pressure	29 psi ... 116 psi
Mode of operation	Double-acting
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion protection certification outside the EU	EPL Dc (GB) EPL Gc (GB)
Explosion prevention and protection	Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (ATEX) Zone 22 (UKEX)
ATEX category gas	II 3G
ATEX category for dust	II 3D
Type of ignition protection for gas	Ex ec IIC T4 Gc X
Type of (ignition) protection for dust	Ex tc IIIC T120°C Dc X
Explosive ambient temperature	0°C ≤ Ta ≤ +50°C
Operating medium	Compressed air as per ISO 8573-1:2010 [6:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible

Feature	Value
Corrosion resistance class (CRC)	1 - Low corrosion stress 2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
For use in the food industry	See supplementary material information
Ambient temperature	-10 °C ... 60 °C
Theoretical force at 6 bar, retracting	153 N
Theoretical force at 6 bar, advancing	153 N
Alternative connections	See product drawing
Type of mounting	With accessories
Pneumatic connection	M5
Cover material	Wrought aluminum alloy
Seals material	NBR TPE-U(PU)