

# Electro-cylinder DNCE-32- -BS-10-Q

Part number: 545212

FESTO

with ball-bearing spindle drive and non-rotating piston rod.



## Data sheet

Feature	Value
Working stroke	1 ... 400 mm
Size	32
Stroke reserve	0 mm
Piston rod thread	M10x1,25
Reversing backlash	0.05 mm
Spindle diameter	10 mm
Spindle pitch	10 mm/U
Max. angular deflection of piston rod +/-	0.3 deg
Based on the standard	ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290)
Assembly position	Any
Motor type	Stepper motor Servomotor
Position detection	For proximity sensor
Design structure	Electro-cylinder with ball screw
Spindle type	Ball screw spindle
Variants	Non-rotating piston rod
Protection against torque/guide	with plain-bearing guide
Max. acceleration	6 m/s <sup>2</sup>
Max. speed	0.5 m/s
Repetition accuracy	+/- 0,02 mm
Duty cycle	100%
Corrosion resistance classification CRC	0
Storage temperature	-25 ... 60 °C
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 50 °C
Impact energy in end positions	0.0001 J
Permanent drive torque	0.7 Nm
Permanent feed force	280 N
Max. drive torque	0.8 Nm
Max. torque for protection against rotation	1 Nm
Max. torque Mx	1 Nm
Max. radial force at drive shaft	45 N
Max. feed force Fx	350 N
No-load driving torque	0.08 Nm
Reference value for working load, horizontal	36 kg
Reference value for working load, vertical	18 kg
Mass moment of inertia JH per metre of stroke	0.0595 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.0253 kgcm <sup>2</sup>
Mass moment of inertia, JO	0.0446 kgcm <sup>2</sup>
Moving mass with 0 mm stroke	200 g
Additional weight per 10 mm stroke	33.6 g
Basic weight for 0 mm stroke	770 g

Feature	Value
Additional mass factor per 10 mm of stroke	6.9 g
Mounting type	with internal (female) thread with accessories
Materials note	Contains PWIS substances
Materials information for cover	Aluminium casting Painted
Materials information for seals	NBR
Materials information, housing	Wrought Aluminium alloy Smooth anodised
Materials information for piston rod	High alloy steel, non-corrosive
Material information, spindle nut	Roller bearing steel
Material information, spindle	Roller bearing steel
Materials information for cylinder barrel	Wrought Aluminium alloy Smooth anodised