

Electric cylinder EPRF-BS-75- -

Part number: 8211895

FESTO



Data sheet

Feature	Value
Size	75
Stroke	50 mm...1000 mm
Stroke reserve	0 mm
Piston rod thread	M16x1.5 M10
Reversing backlash	100 µm
Screw diameter	25 mm
Spindle pitch	5 mm/U...25 mm/U
Max. angle of rotation of the piston rod +/-	0.5 deg
Mounting position	Any
Piston rod end	External thread Internal thread
Motor type	Servo motor
Position sensing	None
Structural design	Electric cylinder with ball screw
Spindle type	Ball screw
Protection against torsion/guide	With plain bearing-guide
Max. actuator speed	2400 rpm...3000 rpm
Max. acceleration	5 m/s ² ...15 m/s ²
Max. speed	250 m/s...1000 m/s
Max. homing speed	0.01 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Storage temperature	-20 °C...60 °C
For use in the food industry	See declaration of conformity
Relative air humidity	0 - 95% Non-condensating

Feature	Value
Degree of protection	IP69K
Ambient temperature	-10 °C...60 °C
Impact energy in the end positions	150 mJ
Max. driving torque	6.83 Nm...19 Nm
Max. torque Mx	0 Nm
Max. torque My	31.2 Nm
Max. torque Mz	31.2 Nm
Max. radial force on actuator shaft	700 N
Max. feed force Fx	4500 N...7500 N
No-load driving torque	0.494 Nm...0.975 Nm
Guide value for payload, horizontal	600 kg
Guide value for payload, vertical	300 kg
Mass moment of inertia JH per meter of stroke	2.2416 kgcm ² ...2.2633 kgcm ²
Mass moment of inertia JL per kg of payload	0.0063 kgcm ² ...0.1583 kgcm ²
Mass moment of inertia JO	0.4976 kgcm ² ...0.5039 kgcm ²
Reference service life	5000 km
Maintenance interval	Lifetime lubrication
Moving mass at 0 mm stroke	1267 g
Additional moving mass per 10 mm stroke	15.1 g
Basic weight with 0 mm stroke	4320 g...5896 g
Additional weight per 10 mm stroke	84.5 g
Type of mounting	with through-hole and rear mounting bracket With through-hole With retaining bracket with internal thread and rear mounting bracket With internal thread with trunnion mounting on end cap
Note on materials	RoHS compliant
Cover cap material	high-alloy stainless steel
Cover material	high-alloy stainless steel
Seals material	TPE-U(PU)
Material of dynamic seals	TPE-U(PU)
Housing material	high-alloy stainless steel
Piston rod material	high-alloy stainless steel
Ball screw nut material	Steel
Spindle material	Bearing steel
Material of cylinder barrel	high-alloy stainless steel