Electric cylinder EPCC-BS-32-Part number: 5428849



Data sheet

Stroke 25 mm200 mm Stroke reserve 0 mm Stroke reserve 0 mm M8 Reversing backlash 100 µm Screw diameter 8 mm Spindle pitch 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any Piston rod end External thread Internal thread Internal thread Internal thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Electric actuator with ball screw drive Ball screw drive Protection against torsion/guide With plain-bearing guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed 3750 rpm Max. speed 0.188 m/s0,5 m/s Max. speed 0.01 m/s Repetition accuracy 0.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress Labal Foundation and the production of Li-ion batteries brown corrolled in seel, chemically nickel-plated surfaces, circuit boards, cables, electrical plus connectors and coils Cleanroom class Class 9 according to ISO 146444-1	Feature	Value
Stroke reserve 0 mm Piston rod thread M8 Reversing backlash 100 µm Screw diameter 8 mm Spindle pitch 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any Piston rod end External thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Effective actuator with ball screw drive Pistonide type Ball screw drive Michael screw drive Max. acceleration Smission/guide With plain-bearing guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed 0.18 m/s0.5 m/s Max. speed 0.18 m/s0.5 m/s Max. speed 0.0.1 m/s Repetition accuracy 0.0.2 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress Lass (PMIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in bartery productions. In the receptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Size	32
Position rod thread Reversing backlash 100 μm Screw diameter 8 mm Spindle pitch 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Position of end External thread Internal thread Internal thread Internal thread Servo motor Position sensing For proximity sensor Electric actuator with balls screw drive Protection against torsion/guide Max. acceleration S m/s²15 m/s² Max. rotational speed Max. speed 0.18 m/s0.5 m/s Max. homing speed Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress VDMAZ4364 zone III Product orresponds to Festo's internal product definition for use in battery production. Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Stroke	25 mm200 mm
Reversing backlash 100 µm 5crew diameter 8 mm 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any Position rod end External thread Internal thread Internal thread Internal thread Internal thread Servor motor Servor motor Servor motor Servor motor Spindle type Ball screw drive Spindle type Outs acceleration 5 m/s²15 m/s² Max. rotational speed Max. acceleration 5 m/s²15 m/s² Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 No corrosion stress VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Stroke reserve	0 mm
Screw diameter 8 mm Spindle pitch 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any Piston rod end External thread Internal thread Internal thread Internal thread Servor motor Servor motor Position sensing For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Ball screw drive With plain-bearing guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed Max. boming speed 0.18 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress Lead or internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Piston rod thread	M8
Spindle pitch 3 mm/U8 mm/U Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any External thread Internal thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Ball screw drive With plain-bearing guide Wax. acceleration Max. acceleration S m/s²15 m/s² Max. rotational speed Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy ±0.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress VMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use, The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Reversing backlash	100 μm
Max. angle of rotation of the piston rod +/- Mounting position Any External thread Internal thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Electric actuator with ball screw drive Spindle type Protection against torsion/guide Max. acceleration Sm/s²15 m/s² Max. rotational speed Max. speed O.188 m/s0.5 m/s Max. homing speed O.01 m/s Repetition accuracy Duty cycle 100% Corrosion resistance class (CRC) O No corrosion stress UDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Class 9 according to ISO 14644-1	Screw diameter	8 mm
Mounting position Any External thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Protection against torsion/guide With plain-bearing guide Max. acceleration Sm/s²15 m/s² Max. rotational speed Any Max. speed Any Max. speed Any Max. homing speed Corrosion resistance class (CRC) Do No corrosion stress ABS (PWIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Spindle pitch	3 mm/U8 mm/U
External thread Internal thread Internal thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Protection against torsion/guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed 3750 rpm Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy ±0.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Max. angle of rotation of the piston rod +/-	1 deg
Internal thread Motor type Stepper motor Servo motor For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Protection against torsion/guide Wax. acceleration S m/s²15 m/s² Max. rotational speed Max. speed O.188 m/s0.5 m/s Max. homing speed O.01 m/s Repetition accuracy ±0.02 mm Duty cycle 100% Corrosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Mounting position	Any
Servo motor For proximity sensor Electric actuator with ball screw drive Spindle type Ball screw drive Ball screw drive With plain-bearing guide Wax. acceleration 5 m/s²15 m/s² Wax. rotational speed 3750 rpm Wax. speed 0.188 m/s0.5 m/s Wax. homing speed 0.01 m/s Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production. Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Piston rod end	
Electric actuator with ball screw drive With plain-bearing guide Wax. acceleration S m/s²15 m/s² Max. rotational speed Max. speed O.188 m/s0.5 m/s Max. homing speed Corrosion resistance class (CRC) ABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Motor type	','
with ball screw drive Ball screw drive Protection against torsion/guide With plain-bearing guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed 3750 rpm Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Position sensing	For proximity sensor
Protection against torsion/guide With plain-bearing guide Max. acceleration 5 m/s²15 m/s² Max. rotational speed 3750 rpm Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Structural design	
Max. acceleration 5 m/s²15 m/s² Max. rotational speed 3750 rpm Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s Repetition accuracy ±0.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Spindle type	Ball screw drive
Max. rotational speed Max. speed O.188 m/s0.5 m/s Max. homing speed O.01 m/s Repetition accuracy ±0.02 mm Outy cycle 100% Corrosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Protection against torsion/guide	With plain-bearing guide
Max. speed 0.188 m/s0.5 m/s Max. homing speed 0.01 m/s 40.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Max. acceleration	5 m/s ² 15 m/s ²
Max. homing speed O.01 m/s 20.02 mm Duty cycle 100% Corrosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Max. rotational speed	3750 rpm
Repetition accuracy ±0.02 mm Duty cycle 100% Corrosion resistance class (CRC) O - No corrosion stress VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Max. speed	0.188 m/s0.5 m/s
Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress ABS (PWIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Max. homing speed	0.01 m/s
Corrosion resistance class (CRC) O - No corrosion stress VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Repetition accuracy	±0.02 mm
ABS (PWIS) conformity VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Duty cycle	100%
Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	Corrosion resistance class (CRC)	0 - No corrosion stress
battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 9 according to ISO 14644-1	LABS (PWIS) conformity	VDMA24364 zone III
g g	Suitability for the production of Li-ion batteries	battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug
Storage temperature -20 °C60 °C	Cleanroom class	Class 9 according to ISO 14644-1
	Storage temperature	-20 °C60 °C

Feature	Value
Relative air humidity	0 - 95 %
	Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C60 °C
Impact energy in the end positions	0.0036 J
Max. driving torque	0.15 Nm0.3 Nm
Max. torque Mx	0 Nm
Max. torque My	1.5 Nm
Max. torque Mz	1.5 Nm
Max. radial force on actuator shaft	75 N
Max. feed force Fx	150 N
No-load driving torque	0.065 Nm0.095 Nm
Guide value for payload, horizontal	24 kg
Guide value for payload, vertical	12 kg
Mass moment of inertia JH per meter of stroke	0.0256 kgcm²0.0311 kgcm²
Mass moment of inertia JL per kg of payload	0.0023 kgcm²0.0162 kgcm²
Mass moment of inertia JO	0.0042 kgcm ² 0.0055 kgcm ²
Maintenance interval	Life-time lubrication
Moving mass at 0 mm stroke	98 g268 g
Additional moving mass per 10 mm stroke	3.3 g11.2 g
Basic weight with 0 mm stroke	225 g838 g
Additional weight per 10 mm stroke	24 g32 g
Type of mounting	With internal thread With accessories
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Smooth anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel