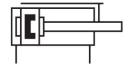
Part number: 8164063





## **Data sheet**

Size	Feature	Value
Piston diameter 10 mm  Cushioning Elastomer cushioning, double-sided, stroke not adjustable optional  Rediculating ball bearing guide  Design Yoke Piston rod Slide  Position detection Via proximity switch  Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. speed 0.5 m/s  Repetition accuracy <= 0.3 mm  Mode of operation Double-acting  Operating medium Compressed air to ISO 8573-1:2010 [7:4:4]  Note on operating and pilot medium always be required  Corrosion resistance class CRC 1 - Low corrosion stress  LABS (PWIS) conformity VDMA24364-C1-L  Suitability for the production of Li-ion batteries 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class Class GRC 1.5 mm  Max. force Fy 766 N  Max. moment Mx 2.8 Nm	Stroke	25 mm
Elastomer cushioning, double-sided, stroke not adjustable  Mounting position  Optional  Rectirculating ball bearing guide  Position detection  Operating pressure  O.1 MPaO.8 MPa 1 bar8 bar 1.4.5 psi116 psi  Max. speed  O.5 m/s  Repetition accuracy  Accuracy  Accuracy  Double-acting  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, themically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  10 °C60 °C  Loushioning length  Max. force F2  Max. moment Mx  2.8 Nm	Size	10
Mounting position Guide Recirculating ball bearing guide Position detection Via proximity switch Operating pressure 1 bar8 bar 14.5 psi116 psi Max. speed 0.5 m/s Repetition accuracy <=0.3 mm Mode of operation Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 1-10 °C60 °C Impact energy in end positions 0.018 J Cushioning length 1.5 mm Max. force Fy 766 N Max. moment Mx 2.8 Nm	Piston diameter	10 mm
Recirculating ball bearing guide  Design  Yoke Piston rod Slide  Position detection  Via proximity switch  Operating pressure  O.1 MPaO.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. speed  O.5 m/s  Repetition accuracy  Accuracy  Mode of operation  Double-acting  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  O.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Cushioning	Elastomer cushioning, double-sided, stroke not adjustable
Position detection  Position detection  Via proximity switch  Operating pressure  O.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. speed  O.5 m/s  Repetition accuracy	Mounting position	optional
Piston rod Slide  Via proximity switch  Operating pressure  O.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. speed  Repetition accuracy  Mode of operating  Mode of operating  Mode of operating medium  Operating and pilot medium  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  O.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Guide	Recirculating ball bearing guide
Operating pressure  On Max. speed  Max. speed  On M	Design	Piston rod
1 bar8 bar 14.5 psi116 psi  Max. speed 0.5 m/s Repetition accuracy <= 0.3 mm  Mode of operation Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4]  Note on operating and pilot medium always be required) Corrosion resistance class CRC 1 · Low corrosion stress  LABS (PWIS) conformity VDMA24364-C1-L  Suitability for the production of Li-ion batteries Product corresponds to the internal product definition from Festo 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 inckel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class Class 6 according to ISO 14644-1  Ambient temperature -10 °C60 °C Impact energy in end positions 0.018 J  Cushioning length 1.5 mm  Max. force Fy 766 N  Max. moment Mx 2.8 Nm	Position detection	Via proximity switch
Repetition accuracy  = 0.3 mm  Double-acting  Compressed air to ISO 8573-1:2010 [7:4:4]  Note on operating medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Cleanroom temperature  -10 °C60 °C  Impact energy in end positions  0.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Operating pressure	1 bar8 bar
Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class Cleans 6 according to ISO 14644-1 Ambient temperature -10 °C60 °C Impact energy in end positions 0.018 J Cushioning length 1.5 mm Max. force Fy 766 N Max. moment Mx 2.8 Nm	Max. speed	0.5 m/s
Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  0.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Repetition accuracy	<= 0.3 mm
Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Froduct corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  0.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Mode of operation	Double-acting Double-acting
always be required)  Corrosion resistance class CRC  1 - Low corrosion stress  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  O.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. force Fz  766 N  Max. moment Mx  2.8 Nm	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity  VDMA24364-C1-L  Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  -10 °C60 °C  Impact energy in end positions  0.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Note on operating and pilot medium	
Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo 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, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C60 °C  Impact energy in end positions  O.018 J  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Corrosion resistance class CRC	1 - Low corrosion stress
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, printed circuit boards, cables, electrical plug connectors and coils  Class 6 according to ISO 14644-1  Ambient temperature -10 °C60 °C  Impact energy in end positions 0.018 J  Cushioning length 1.5 mm  Max. force Fy 766 N  Max. moment Mx 2.8 Nm	LABS (PWIS) conformity	VDMA24364-C1-L
Ambient temperature -10 °C60 °C Impact energy in end positions 0.018 J Cushioning length 1.5 mm Max. force Fy 766 N Max. force Fz 766 N Max. moment Mx 2.8 Nm	Suitability for the production of Li-ion batteries	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, printed circuit boards, cables,
Impact energy in end positions  Cushioning length  1.5 mm  Max. force Fy  766 N  Max. moment Mx  2.8 Nm	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length       1.5 mm         Max. force Fy       766 N         Max. force Fz       766 N         Max. moment Mx       2.8 Nm	Ambient temperature	-10 °C60 °C
Max. force Fy         766 N           Max. force Fz         766 N           Max. moment Mx         2.8 Nm	Impact energy in end positions	0.018 J
Max. force Fz 766 N  Max. moment Mx 2.8 Nm	Cushioning length	1.5 mm
Max. moment Mx 2.8 Nm	Max. force Fy	766 N
	Max. force Fz	766 N
Max. moment My 2.4 Nm	Max. moment Mx	2.8 Nm
	Max. moment My	2.4 Nm

Feature	Value
Max. moment Mz	2.4 Nm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	39 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	47 N
Moving mass	67 g
Product weight	154 g
Type of mounting	With through-hole Via female thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material seals	NBR PU
Material guide	NBR PA High-alloy steel
Material housing	Wrought aluminium alloy
Material piston rod	High-alloy stainless steel