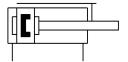
Part number: 8164054





Data sheet

Size 6 Piston diameter 6 mm Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing For proximity sensor Operating pressure 0.15 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed 0.5 m/s Repetition accuracy 40.3 mm Mode of operation Double-acting Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. force F2 274 N Max. torque My 0.6 Nm	Feature	Value
Piston diameter Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing Por proximity sensor Operating pressure O1.5 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed O.5 m/s Repetition accuracy - 0.3 mm Mode of operation Operating medium Information on operating and pilot media Operation on operating and pilot media Operation resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded surfaces, printed circuit boards, cables, electrical plug connectors and coils Cleanroom class Class Gacording to ISO 14644-1 Ambient temperature - 10 °C60 °C Impact energy in the end positions O.01 J Cushioning length O.9 mm Max. force Fy 274 N Max. force Fy Max. torque MX O.7 Nm Max. torque MY O.6 Nm	Stroke	25 mm
Elastomer cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Recirculating ball bearing guide Structural design Piston rod Slide Position sensing For proximity sensor Operating pressure O.15 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed Repetition accuracy Gogreating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Cleanroom class Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature Impact energy in the end positions O.1 J Cushioning length O.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque MX O.7 Nm Max. torque My O.6 Nm	Size	6
Mounting position Guide Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing For proximity sensor Operating pressure O.15 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed O.5 m/s Repetition accuracy (= 0.3 mm Double-acting Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance class (CRC) Orosion resistance class (CRC) 1- low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.0.1 J Cushioning length O.9 mm Max. force Fy 274 N Max. force F7 274 N Max. torque MX O.7 Nm Max. torque MX O.6 Nm	Piston diameter	6 mm
Guide Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing For proximity sensor Operating pressure 0.15 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed 0.5 m/s Repetition accuracy (= 0.3 mm Mode of operating Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 1.0 °C60 °C Impact energy in the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design Yoke Piston rod Slide Position sensing Operating pressure O1.5 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed Repetition accuracy Gerating medium Operating medium Operating medium Operating medium Operating medium Operation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 Ino °C60 °C Impact energy in the end positions O.01 J Cushioning length O.9 mm Max. force Fy 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Mounting position	Any
Position sensing For proximity sensor Operating pressure 0.15 MPa0.8 MPa 1.5 bar8 bar 21.75 psi116 psi Max. speed 0.5 m/s Repetition accuracy Ander of operating Operating medium Operating medium Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.01 J Cushioning length Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Guide	Recirculating ball bearing guide
Operating pressure Operating medium Operating medium Operating medium Operating medium Operating with oil lubrication possible (required for further use) Operation with oil lubrication possible (required for further use) Operation with oil price production of further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price production possible (required for further use) Operation with oil price price price price price price price product on possible (required for further use) Operation with oil price pri	Structural design	Piston rod
1.5 bar8 bar 21.75 psi116 psi Max. speed 0.5 m/s Repetition accuracy <= 0.3 mm Mode of operation Double-acting Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Position sensing	For proximity sensor
Repetition accuracy <= 0.3 mm Mode of operation Double-acting Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx 0.6 Nm	Operating pressure	1.5 bar8 bar
Double-acting Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.01 J Cushioning length O.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Max. speed	0.5 m/s
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Repetition accuracy	<= 0.3 mm
Information on operating and pilot media Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.9 mm Max. force Fy 274 N Max. force Fz Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Mode of operation	Double-acting
Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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 the end positions O.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Corrosion resistance class (CRC)	1 - Low corrosion stress
from use. 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 the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	LABS (PWIS) conformity	VDMA24364-C1-L
Ambient temperature -10 °C60 °C Impact energy in the end positions 0.01 J Cushioning length 0.9 mm Max. force Fy 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Suitability for the production of Li-ion batteries	from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and
Impact energy in the end positions O.01 J Cushioning length O.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx O.7 Nm Max. torque My O.6 Nm	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length 0.9 mm Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Ambient temperature	-10 °C60 °C
Max. force Fy 274 N Max. force Fz 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Impact energy in the end positions	0.01 J
Max. force Fz 274 N Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Cushioning length	0.9 mm
Max. torque Mx 0.7 Nm Max. torque My 0.6 Nm	Max. force Fy	274 N
Max. torque My 0.6 Nm	Max. force Fz	274 N
• •	Max. torque Mx	0.7 Nm
Max. torque Mz 0.6 Nm	Max. torque My	0.6 Nm
	Max. torque Mz	0.6 Nm

Feature	Value
Theoretical force at 6 bar, retracting	13 N
Theoretical force at 6 bar, advancing	17 N
Moving mass	36 g
Product weight	89 g
Type of mounting	With through-hole With internal thread
Pneumatic connection	M3
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	NBR PU
Guide material	NBR PA High-alloy steel
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel