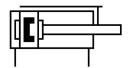
Mini slide **DGSS-20-30-E1A**Part number: 8164082







General operating condition

Piston diameter 20 mm	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 For proximity sensor Operating pressure Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure Operating pressure 1 4.5 psi 116 psi Max. speed Operating and pilot media 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 ALBS (CWIS) conformity VDMA24364-C1-1 Suitability for the production of Li-ion batteries Metals with more than 1% by mass of 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 connects and coils Cleanroom class Cleanroom class Ambient temperature 1-10°C60°C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fy 1363 N Max. force Fy 1363 N Max. torque My Max. torque My Max. torque My Max. torque Mz Honevertical force at 6 bar, advancing	Stroke	30 mm
Elastomer cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing Position sensing For proximity sensor Operating pressure Operating pressure Operating pressure 10.5 m/s. Repetition accuracy 10.5 m/s Repetition operating and pilot media Operation with oil tubrication possible (required for further use) Corrosion resistance class (CRC) 10.5 m/s LABS (PWIS) conformity VDMA24364-C1-L Suitability for the production of Li-ion batteries Reactual of from use. Exceptions are nickel in steel, chemically nicke plated surfaces, printed circuit boards, cables, electrical plug connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 10.0°C60.0°C Impact energy in the end positions 0.051 Cushioning length 1 mm Max. force Fz 1363 N Max. force Fz 1363 N Max. torque My 4.4 Nm Max. torque My 4.4 Nm Max. torque My 4.4 Nm Max. torque Mz Max. torque Mz Max. torque Mz Max. torque Mz Hower Class (Bas on a displacement) 188 N Theoretical force at 6 bar, advancing	Size	20
Mounting position Guide Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure O.1 MPa 0.8 MPa Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 tas per list of sensing Operating medium Compressed air as per list of sensing Operating medium Compressed air as per list of sensing Operating medium Operation on operating and pilot media Operation with oil lubrication possible (required for further use) Operating 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% by mass of 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 connection of list of sensing length In m Max. force Fy 1363 N Max. torque My 1363 N Max. torque My 14.4 Nm Max. torque My 15.8 N Theoretical force at 6 bar, advancing 188 N	Piston diameter	20 mm
Guide Recirculating ball bearing guide Structural design Yoke Piston rod Slide Position sensing For proximity sensor Symbol O0991737 Operating pressure O1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1 bar 8 bar Operating pressure O5 m/s Repetition accuracy C= 0.3 mm Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance class (CRC) O1 - Low corrosion stress VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% by mass of 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 connect and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design Yoke Pistor rod Slide Position sensing For proximity sensor Symbol Operating pressure Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy (= 0.3 mm Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating 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% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel pladed surfaces, printed circuit boards, cables, electrical plug connected and coils Cleanroom class Cleancom class Class 6 according to ISO 14644-1 Ambient temperature 10 °C 60 °C Impact energy in the end positions O.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fy 1363 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My 4.4 Nm Max. torque My Max. torque My	Mounting position	Any
Piston rod Slide Position sensing For proximity sensor Symbol 00991737 Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1,4.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy 4 = 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-C1-1 Suitability for the production of Li-ion batteries Metals with more than 1% by mass of 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 connected and coils Cleanroom class Clean regry in the end positions Operating the end positions Operating medium Max. force Fy 1363 N Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque MZ Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Guide	Recirculating ball bearing guide
Symbol 00991737 Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1.4.5 psi 116 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 are excluded from use. Exceptions are nickel in steel, chemically nickel plated surfaces, printed circuit boards, cables, electrical plug connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque My 4.4 Nm Max. torque My 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Structural design	Piston rod
Operating pressure Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy 4 = 0.3 mm Mode of operating medium Operating on operating and pilot media Operation with oil lubrication possible (required for further use) Operating in with oil lubrication possible (required for further use) Operating the production of Li-ion batteries Metals with more than 1% by mass of 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 connecte and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fy 1363 N Max. torque Mx 9.9 Mm Max. torque Mx 4.4 Nm Max. torque Mz 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Position sensing	For proximity sensor
Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy (= 0.3 mm Mode of operation 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% by mass of 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 connecte and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 3.9 Mm Max. torque Mx 4.4 Nm Max. torque My 4.4 Nm Max. torque MZ 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Symbol	00991737
Operating pressure 14.5 psi 116 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% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature Inpact energy in the end positions O.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Operating pressure	0.1 MPa 0.8 MPa
Max. speed 0.5 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 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% by mass of 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 connecte and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Operating pressure	1 bar 8 bar
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 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% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Operating pressure	14.5 psi 116 psi
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% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	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 Suitability for the production of Li-ion batteries Metals with more than 1% by mass of 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 connected and coils Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx Max. torque Mx Max. torque My 4.4 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Repetition accuracy	<= 0.3 mm
Information on operating and pilot media Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress VDMA24364-C1-L Suitability for the production of Li-ion batteries Metals with more than 1% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	Mode of operation	Double-acting
Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364-C1-L Metals with more than 1% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My 4.4 Nm Max. torque My Max. torque My Max. torque My Max. torque Mz	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% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.05 J Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque My 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing	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% by mass of 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 connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque My 4.4 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing 188 N	Corrosion resistance class (CRC)	1 - Low corrosion stress
are excluded from use. Exceptions are nickel in steel, chemically nickel plated surfaces, printed circuit boards, cables, electrical plug connected and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing 188 N	LABS (PWIS) conformity	VDMA24364-C1-L
Ambient temperature Impact energy in the end positions O.05 J Cushioning length Imm Max. force Fy I363 N Max. torque Mx Max. torque Mx Max. torque My Ax. torque My Max. torque Mz Theoretical force at 6 bar, advancing Impact energy in the end positions O.05 J Imm Imm Imm Imm Imm Imm Imm Imm Imm Im	Suitability for the production of Li-ion batteries	are excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors
Impact energy in the end positions Cushioning length 1 mm Max. force Fy 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing 0.05 J 1 mm 1 mm 1 363 N 1 363 N 4.4 Nm 1 4.4 Nm 1 58 N 1 58 N 1 58 N	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length 1 mm Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Ambient temperature	-10 °C 60 °C
Max. force Fy 1363 N Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Impact energy in the end positions	0.05 J
Max. force Fz 1363 N Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Cushioning length	1 mm
Max. torque Mx 8.9 Nm Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Max. force Fy	1363 N
Max. torque My 4.4 Nm Max. torque Mz 4.4 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing 188 N	Max. force Fz	1363 N
Max. torque Mz Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Max. torque Mx	8.9 Nm
Theoretical force at 6 bar, retracting 158 N Theoretical force at 6 bar, advancing 188 N	Max. torque My	4.4 Nm
Theoretical force at 6 bar, advancing 188 N	Max. torque Mz	4.4 Nm
, J	Theoretical force at 6 bar, retracting	158 N
Moving mass 199 g	Theoretical force at 6 bar, advancing	188 N
	Moving mass	199 g

Feature	Value
Product weight	477 g
Type of mounting	With through-hole With internal thread
Pneumatic connection	M5
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