## Mini slide **DGSS-10-10-E1A** Part number: 8164060



**Data sheet** 

General operating condition

are excluded from use. Exceptions are nickel in steel, chemically	Feature	Value
Piston diameter     10 mm       Cushioning     Elastomer cushioning, at both ends, stroke not adjustable       Mounting position     Any       Guide     Recirculating ball bearing guide       Structural design     Yoke       Position sensing     For proximity sensor       Symbol     00991737       Operating pressure     0.1 MPa 0.8 MPa       Operating pressure     10 s.m. 8 bar       Operating pressure     1.4.5 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 corosion 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 marge excluded from use. Exceptions are nickel in steel, chemically in plated surfaces, printed circuit boards, cables, electrical plug con and coils       Cleanroom class     Class 6 according to ISO 14644-1       Ambient temperature     -10 ° C 60 °C	Stroke	10 mm
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       Symbol     00991737       Operating pressure     0.1 MPa 0.8 MPa       Operating pressure     1 bar 8 bar       Operating pressure     0.5 m/s       Repetition accuracy     (= 0.3 mm       Mode of operation     Double-acting       Operating medium     Compressed air as per ISD 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 ma are excluded from use. Exceptions are nickel in steel, chemically plated surfaces, printed circuit boards, cables, electrical plug con and coils       Cleanroom class     Class 6 according to ISO 14644-1       Ambient temperature     -10 °C 60 °C       Impact energy in the end positions     0.018]       Cushoning length     1.5 mm <td>Size</td> <td>10</td>	Size	10
Mounting position     Any       Guide     Recirculating ball bearing guide       Structural design     Yoke       Piston rod     Silde       Position sensing     For proximity sensor       Symbol     00991737       Operating pressure     0.1 MPa 0.8 MPa       Operating pressure     1 bar 8 bar       Operating pressure     0.5 m/s       Repetition accuracy     (= 0.3 mm       Mode of operating on operating and pilot media     Operating 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 m are excluded from use. Exceptions are nickel up or and coils       Cleanroom class     Class 6 according to ISO 14644-1       Ambient temperature     -10 °C 60 °C       Impact energy in the end positions     0.018 J       Cushioning length     1.5 mm       Max. force Fy     826 N       Max. torque MX     3 Nm       Max. torque MX	Piston diameter	10 mm
Guide     Recirculating ball bearing guide       Structural design     Yoke       Pistion rod     Slide       Position sensing     For proximity sensor       Symbol     00991737       Operating pressure     0.1 MPa 0.8 MPa       Operating pressure     0.5 m/s       Repetition accuracy     (< 0.3 mm	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design     Yoke       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 bar 8 bar       Operating pressure     0.5 m/s       Repetition accuracy     <-0.3 mm	Mounting position	Any
Piston rodSymbol00991737Operating pressure0.1 MPa 0.8 MPaOperating pressure1 bar 8 barOperating pressure1 bar 8 barOperating pressure14.5 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm	Guide	Recirculating ball bearing guide
Symbol00991737Operating pressure0.1 MPa 0.8 MPaOperating pressure1 bar 8 barOperating pressure14.5 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm	Structural design	Piston rod
Operating pressure0.1 MPa 0.8 MPaOperating pressure1 bar 8 barOperating pressure14.5 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm	Position sensing	For proximity sensor
Operating pressure1 bar 8 barOperating pressure14.5 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm	Symbol	00991737
Operating pressure     14.5 psi 116 psi       Max. speed     0.5 m/s       Repetition accuracy     <= 0.3 mm	Operating pressure	0.1 MPa 0.8 MPa
Max. speed0.5 m/sRepetition accuracy<= 0.3 mm	Operating pressure	1 bar 8 bar
Repetition accuracy<= 0.3 mmMode of operationDouble-actingOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-C1-LSuitability for the production of Li-ion batteriesMetals with more than 1% by mass of copper, zinc or nickel by ma are excluded from use. Exceptions are nickel in steel, chemically plated surfaces, printed circuit boards, cables, electrical plug con and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.018 JCushioning length1.5 mmMax. force Fy826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Operating pressure	14.5 psi 116 psi
Mode of operationDouble-actingOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-C1-LSuitability for the production of Li-ion batteriesMetals with more than 1% by mass of copper, zinc or nickel by ma are excluded from use. Exceptions are nickel in steel, chemically uplated surfaces, printed circuit boards, cables, electrical plug con and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.018 JCushioning length1.5 mmMax, force Fy826 NMax, torque Mx3 NmMax. torque Mx2.6 NmMax. torque Mz2.6 Nm	Max. speed	0.5 m/s
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-C1-LSuitability for the production of Li-ion batteriesMetals with more than 1% by mass of copper, zinc or nickel by ma are excluded from use. Exceptions are nickel in steel, chemically a plated surfaces, printed circuit boards, cables, electrical plug con and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.018 JCushioning length1.5 mmMax. force Fy826 NMax. force Fz826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Repetition accuracy	<= 0.3 mm
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-C1-LSuitability for the production of Li-ion batteriesMetals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically i plated surfaces, printed circuit boards, cables, electrical plug con and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.018 JCushioning length1.5 mmMax. force Fy826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Mode of operation	Double-acting
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Impact energy in the end positions0.018 JCushioning length1.5 mmMax. force Fy826 NMax. force Fz826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length1.5 mmMax. force Fy826 NMax. force Fz826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Ambient temperature	-10 °C 60 °C
Max. force Fy826 NMax. force Fz826 NMax. torque Mx3 NmMax. torque My2.6 NmMax. torque Mz2.6 Nm	Impact energy in the end positions	0.018 J
Max. force Fz   826 N     Max. torque Mx   3 Nm     Max. torque My   2.6 Nm     Max. torque Mz   2.6 Nm	Cushioning length	1.5 mm
Max. torque Mx   3 Nm     Max. torque My   2.6 Nm     Max. torque Mz   2.6 Nm	Max. force Fy	826 N
Max. torque My   2.6 Nm     Max. torque Mz   2.6 Nm	Max. force Fz	826 N
Max. torque Mz 2.6 Nm	Max. torque Mx	3 Nm
	Max. torque My	2.6 Nm
Theoretical force at 6 bar, retracting 39 N	Max. torque Mz	2.6 Nm
	Theoretical force at 6 bar, retracting	39 N
Theoretical force at 6 bar, advancing 47 N	Theoretical force at 6 bar, advancing	47 N
Moving mass 56 g	Moving mass	56 g

Feature	Value
Product weight	124 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