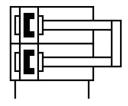
Mini slide **DGST-20-150-E1A**Part number: 8078870







General operating condition

Data sheet

Piston diameter 20 mm Drive unit operating mode Yoke Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Ball bearing cage guide Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor 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 operation Double-acting Operating medium Comparating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx 20 Nm Max. torque Mx Moving mass Max. dorque Mx Moving mass Max. dorque Mx Moving mass Moving mass Moving mass Moving mass Moving mass Max. dorque Mx Moving mass Moving mass Moving mass Max. dorque Mx Moving mass Moving mass Moving mass Max. dorque Mx Moving mass Moving ma	Feature	Value
Drive unit operating mode Cushioning Elastomer cushioning, at both ends, stroke not adjustable Any Guide Ball bearing cage guide Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1 4.5 psi 116 psi Max. speed 4 - 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 one resistance class (CRO) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Ambient temperature 1 0° C 60° C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fz 1300 N Max. force Fz 1300 N Max. torque MX Max. torque MA Max. tor	Stroke	150 mm
Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Ball bearing cage guide Structural design Twin piston Yoke Piston rood Slide Position sensing For proximity sensor Symbol 00991249 Operating pressure 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1.5 m 8 bar Operating pressure 1.5 m 116 psi Max. speed 0.5 m/s Repetition accuracy 4 -0.3 mm Mode of operation Double-acting 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-B1/B2-L Clearroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx Max. torque Mx Max. torque My Max. torque Mc Theoretical force at 6 bar, advancing 177 N Moving mass 1221 g	Piston diameter	20 mm
Mounting position Guide Ball bearing cage guide Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 4.5 psi 116 psi Max. speed Operating operation Operating operation Double-acting Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation esistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-81/82-1 Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length Imm Max. force F2 1300 N Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque Mz Max. torque Mz Max. torque Mz Moving mass Max. dorque Max Moving mass Moving mass Moving mass Max. dorque Max Moving mass Moving mass Moving mass Max. dorque Max Max. dorque Max Moving mass Max. dorque Max Moving max. dorq	Drive unit operating mode	Yoke
Guide Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure Oper	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design Twin piston Yoke Piston rod Slide For proximity sensor Symbol Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 4.5 psi 116 psi Max. speed Operating Departing Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on 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 LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 377 N Moving mass 1221 g	Mounting position	Any
Position sensing Position sensing For proximity sensor Symbol Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 bar 8 bar Operating pressure 0.5 m/s Repetition accuracy Max. speed Operating Departing 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) 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 1:0 °C 60 °C Impact energy in the end positions Outling length 1 mm Max. force Fy 1300 N Max. force Fy 1300 N Max. torque My Theoretical force at 6 bar, advancing Moving mass Moving mass Noving mass Noving Moving	Guide	Ball bearing cage guide
Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 to 5 m/s Repetition accuracy Mode of operating medium Operating messed 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) Operation with oil number of the further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	Structural design	Yoke Piston rod
Operating pressure 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 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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque Mx 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 377 N Moving mass 1221 g	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 4 = 0.3 mm Mode of operating 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-B1/B2-L Cleanroom class Class CRC) Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Symbol	00991249
Operating pressure 14.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy 4 = 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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 ° C 60 ° C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx 20 Nm Max. torque Mx 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 317 N Moving mass 1221 g	Operating pressure	0.1 MPa 0.8 MPa
Max. speed 0.5 m/s Repetition accuracy c= 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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Operating pressure	1 bar 8 bar
Repetition accuracy Generating 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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque Mx 17 Nm Max. torque My 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	Operating pressure	14.5 psi 116 psi
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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque Mx 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	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-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	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-B1/B2-L Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	Mode of operation	Double-acting
Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My 17 Nm Theoretical force at 6 bar, retracting 317 N Moving mass 1221 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque My 17 Nm Theoretical force at 6 bar, retracting 317 N Moving mass 1221 g	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Mount mass Class 6 according to ISO 14644-1 -10 °C 60 °C -10	Corrosion resistance class (CRC)	1 - Low corrosion stress
Ambient temperature Impact energy in the end positions O.2 J Cushioning length I mm Max. force Fy I300 N Max. force Fz I300 N Max. torque Mx ON Max. torque My I7 Nm Max. torque Mz Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass In Max. torque Max Moving mass In Max. torque Max	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cushioning length 1 mm Max. force Fy 1300 N Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Ambient temperature	-10 °C 60 °C
Max. force Fy Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing Moving mass 1221 g	Impact energy in the end positions	0.2 J
Max. force Fz 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Cushioning length	1 mm
Max. torque Mx 20 Nm Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Max. force Fy	1300 N
Max. torque My 17 Nm Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Max. force Fz	1300 N
Max. torque Mz 17 Nm Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Max. torque Mx	20 Nm
Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Max. torque My	17 Nm
Theoretical force at 6 bar, advancing 377 N Moving mass 1221 g	Max. torque Mz	17 Nm
Moving mass 1221 g	Theoretical force at 6 bar, retracting	317 N
	Theoretical force at 6 bar, advancing	377 N
Product weight 2686 g	Moving mass	1221 g
	Product weight	2686 g

Feature	Value
Type of mounting	With through-hole
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	HNBR
Guide material	POM TPE-E High-alloy steel
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel