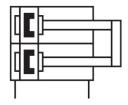
Mini slide **DGST-20-150-E1A**Part number: 8078870







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 Corrosion resistance class (CRC) 1- Low corrosion stress 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 Max. dorque Mx 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 Mov	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 Postition 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 Repetition accuracy 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 on operating and pilot media Operating resistance class (CRO) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class 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 Fy 1300 N Max. torque MX Max. torque MX Max. torque MX Max. torque MX Max. torque MM Max. torque MA Max. torque MC Max. torque MA Max. torque	Stroke	150 mm
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 1.5 m 16 psi Max. speed 0.5 m/s Repetition accuracy 4 -0.3 mm Mode of operation Operating and pilot media Operation on operating and pilot media Operation resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Clearroom class CRCO 1.0 °C Labrodius Cushioning length 1 mm Max. force Fy 1300 N Max. force F2 1300 N Max. torque MX Max. torque MX Max. torque MX Moving mass 1221 g Moving mass May 1221 g Moving mass Moving mass Max torque MX Moving mass Moving mass Moving mass Moving mass Max force E2 Moving micro Moving Moving mass Moving mass Moving mass Moving mass Moving mass Moving mass Max force 4 case fact, advancing Moving mass Moving mass Moving mass Max force 4 case fact, advancing Moving mass Moving mass Max force 4 case fact, advancing Moving mass Moving mass Max force 4 case fact, advancing Moving mass Moving mass Max force 4 case fact, advancing Moving mass Moving mass Max force 4 case fact, advancing Moving mass	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] 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-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 Imm Max. force F2 1300 N Max. torque MX Max. torque MX Max. torque MX Max. torque MZ Theoretical force at 6 bar, advancing Moving mass Moving mass Moving mass 1221 g Moving mass	Drive unit operating mode	Yoke
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 bar 8 bar Operating pressure Operating pressure 1 bar 8 bar Operating pressure O.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. force Fz 1300 N Max. torque My Moving mass 1221 g Moving mass	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design Twin piston Yoke Pliston rod Slide Position sensing For proximity sensor Symbol Operating pressure O.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed O.5 m/s Repetition accuracy Another of operation Operating or operation Operating or operation Operating money 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 Impact energy in the end positions O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque My Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, advancing Moving mass 1221 g Twin in juston Twin in juston Operation with sensor Side For proximity sensor Side Por proximity sensor Side Por proximity sensor Side For proximity sensor Side S	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 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 Anhient 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 Moving mass	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 medium Operating and pilot media Operating on operating and pilot media Operating 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 O.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque My Moving mass Operating medium Operating Max in 1221 g Max. Max. dorned As and Advancing Operating medium Operating Max. dorned Operating in 150 14644-1 1 bar 8 bar Operating Max. dorned Operating in 150 8573-1:2010 [7:4:4] Operating Operation Operating Operation Operating Operation on operating Operation with oil lubrication possible (required for further use) Operating Operation on operating Operation with oil lubrication possible (required for further use) Operating Operation on operating Operation with oil lubrication possible (required for further use) Operating Operation on operating Operation with oil lubrication possible (required for further use) Operating Operation with oil lubrication possible (required for further use) Operating Operation with oil lubrication possible (required for further use) Operating Operation on operating Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for further use) Operation of Operation with oil lubrication possible (required for Operation wit	Structural design	Yoke Piston rod
Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed Operating pressure Operating pressure 14.5 psi 116 psi Max. speed Operating pressure Operating medium Operating medium Operating medium Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) 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 Outline and positions Outline	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 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 Theoretical force at 6 bar, retracting 317 N Theoretical force at 6 bar, advancing 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 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 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 Theoretical force at 6 bar, advancing 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 Moving mass 1221 g	Operating pressure	1 bar 8 bar
Repetition accuracy Ge 0.3 mm 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 Max. torque Mz 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 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 Torque My To 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 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	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 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 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 0.2 J Cushioning length 1 mm Max. force Fy 1300 N Max. torque Mx 20 Nm Max. torque My 17 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Mount in the end positions 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 Mover of the end positions O.2 J I mm I mm I mm I mm I 300 N I 7 N m I 7 N m I 7 N m I 7 N m I 8 Moving mass I 1221 g	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 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 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 Theoretical force at 6 bar, retracting 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