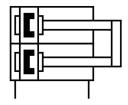
## Mini slide DGST-8-20-E1A

Part number: 8078834







General operating condition

## **Data sheet**

Piston diameter 8 mm Drive unit operating mode Yoke Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 0.5 m/s Repetition accuracy	Feature	Value
Drive unit operating mode  Cushioning  Elastomer cushioning, at both ends, stroke not adjustable  Any  Guide  Recirculating ball bearing guide  Structural design  Twin piston Yoke Piston rod Slide  Position sensing  For proximity sensor  Operating pressure  Operating operating  Operating operating  Operating operating  Operating operating  Operating operating  Operating operating  Operating pressure  1.5 bar 8 bar  Operating pressure  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 (CRO)  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.03 J  Cushioning length  1.5 mm  Max. force Fz  275 N  Max. force Fz  275 N  Max. torque MX  Ax Norque MY  Ax Norque Mo  Moving mass  Howing mass  Base descruding to Iso 1464 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass	Stroke	20 mm
Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Recirculating ball bearing guide  Structural design Twin piston Yoke Piston rod Slide  Position sensing For proximity sensor  Symbol 00991249  Operating pressure 0.15 MPa 0.8 MPa  Operating pressure 1.5 bar 0.8 MPa  Operating pressure 21.75 psi 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 VDMA246-B1/B2-L  Clearnoom class Class 6 according to ISO 14644-1  Ambient temperature 1.0 °C 60 °C  Impact energy in the end positions 0.03 J  Cushioning length 1.5 mm  Max. force Fy 275 N  Max. torque Mx  Max. torque Mx  Max. torque Mx  Max. torque My  Max. torque Mx  Douglia Sall bearing guide  Elastomer cushioning, at both ends adjustable required for further use) and the mile and positions on Noving mass  Elastomer cushioning, at paid and bear and paid to Science and paid and paid and paid bearing guide  Elastomer cushioning, at paid and paid and paid bear and paid and paid bearing guide  Elevation possible paid bearing guide  Elastomer cushioning, at both ends and paid bearing guide  Elastomer cushioning, at bearing guide  Elastomer cushion and paid ends  Any force Fy  Max. torque Mx  A torque	Piston diameter	8 mm
Mounting position Guide Recirculating ball bearing guide Structural design Twin piston Yoke Piston rod Silide Position sensing For proximity sensor Symbol Operating pressure O.5 m/s Repetition accuracy (= 0.3 mm Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressidance 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.03 J Cushioning length Ass. force F2 275 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. torque Mz Max. torque Mz Moving mass Moving	Drive unit operating mode	Yoke
Guide Recirculating ball bearing guide  Structural design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor  Symbol Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure Operating pr	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design  Twin piston Yoke Pliston rod Slide  For proximity sensor  Operating pressure  Operating pressure  Operating pressure  1.5 bar 8 bar  Operating pressure  1.5 bar 8 bar  Operating pressure  0.5 m/s  Repetition accuracy	Mounting position	Any
Position sensing Position sensing For proximity sensor Symbol Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure Operating pressure  0.5 m/s Reped O.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 Cleanroom class Class 6 according to ISO 14644-1 Anhient temperature 1:0 °C 60 °C Impact energy in the end positions Output Information on operations Output Information on operations Output Information on operation on operation with oil lubrication possible (required for further use) Class 6 according to ISO 14644-1 Anhient temperature 1:0 °C 60 °C Impact energy in the end positions Output Information on operations Output Information on operations Output Information on operation of the operation	Guide	Recirculating ball bearing guide
Operating pressure Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. speed Operating Description accuracy  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-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.03 J Cushioning length 1.5 mm Max. force Fy 275 N Max. force Fz 275 N Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Moving mass 80 g Moving mass	Structural design	Yoke Piston rod
Operating pressure Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. speed Operating Double-acting Operating Double-acting 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 Information on operations Oo3 J Cushioning length 1.5 mm Max. force Fy 275 N Max. force Fy 275 N Max. torque Mx 2 Nm Max. torque Mx Ax. torque My 2 Nm Max. torque Mz Theoretical force at 6 bar, advancing Moving mass 80 g Moving mass	Position sensing	For proximity sensor
Operating pressure  1.5 bar 8 bar Operating pressure  21.75 psi 116 psi  Max. speed  0.5 m/s Repetition accuracy  4 = 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.03 J Cushioning length 1.5 mm Max. force Fy 275 N Max. force Fy 275 N Max. torque Mx 2 Nm Max. torque Mx 2 Nm Max. torque My 4 2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing Moving mass 80 g	Symbol	00991249
Operating pressure  21.75 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.03 J  Cushioning length 1.5 mm  Max. force Fy 275 N  Max. force Fz 275 N  Max. torque Mx 2 Nm  Max. torque Mx 2 Nm  Max. torque My 45 N  Theoretical force at 6 bar, retracting 45 N  Theoretical force at 6 bar, advancing Moving mass  80 g	Operating pressure	0.15 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-B1/B2-L  Cleanroom class Class 6 according to ISO 14644-1  Ambient temperature -10 °C 60 °C  Impact energy in the end positions 0.03 J  Cushioning length 1.5 mm  Max. force Fy 275 N  Max. force Fz 275 N  Max. torque Mx 2 Nm  Max. torque Mx 2 Nm  Max. torque My 2 Nm  Max. torque My 45 N  Max. torque Mz 60 N  Moving mass 80 g  Moving mass	Operating pressure	1.5 bar 8 bar
Repetition accuracy  Generating 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-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.03 J  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  4 2 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  80 g	Operating pressure	21.75 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.03 J Cushioning length 1.5 mm Max. force Fy 275 N Max. force Fz 275 N Max. torque Mx 2 Nm Max. torque Mx 2 Nm Max. torque My 4 2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing Moving mass 80 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.03 J  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. force Fz  275 N  Max. torque Mx  Amax. torque My  Max. torque My  Max. torque My  Amax. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  80 g  Moving mass	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  Clean class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C 60 °C  Impact energy in the end positions  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  Max. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  Moving mass  Operation with oil lubrication possible (required for further use)  1 - Low corrosion stress  VDMA24364-B1/B2-L  Class 6 according to ISO 14644-1  -10 °C 60 °C  -10 °C	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.03 J  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque My  2 Nm  Theoretical force at 6 bar, retracting  45 N  Moving mass  80 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  0.03 J  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque My  4 Nm  Theoretical force at 6 bar, retracting  Moving mass  80 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  Cushioning length  1.5 mm  Max. force Fy  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque My  45 N  Theoretical force at 6 bar, advancing  Moving mass  Class 6 according to ISO 14644-1  -10 °C 60 °C  -10 °C	Corrosion resistance class (CRC)	1 - Low corrosion stress
Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.03 J Cushioning length 1.5 mm  Max. force Fy 275 N  Max. torque Mx 2 Nm  Max. torque My 2 Nm  Max. torque Mz 2 Nm  Theoretical force at 6 bar, retracting 45 N  Moving mass 80 g	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cushioning length  1.5 mm  Max. force Fy  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque Mz  2 Nm  Theoretical force at 6 bar, advancing  Moving mass  0.03 J  0.04 M  0.05 M  0.07 N  0.08 J  0.09 J  0.00 J	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length  Max. force Fy  275 N  Max. torque Mx  Ax. torque My  Max. torque My  2 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  1.5 mm  1.5 mm  1.5 mm  1.5 mm  475 N  475 N  475 N  485 N  486 N  487 N  488 N  488 N  488 N  489 N  489 N	Ambient temperature	-10 °C 60 °C
Max. force Fy  Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque Mz  2 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  80 g	Impact energy in the end positions	0.03 J
Max. force Fz  275 N  Max. torque Mx  2 Nm  Max. torque My  2 Nm  Max. torque Mz  2 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  80 g	Cushioning length	1.5 mm
Max. torque Mx 2 Nm  Max. torque My 2 Nm  Max. torque Mz 2 Nm  Theoretical force at 6 bar, retracting 45 N  Theoretical force at 6 bar, advancing 60 N  Moving mass 80 g	Max. force Fy	275 N
Max. torque My  2 Nm  Max. torque Mz  2 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  60 N  Moving mass  80 g	Max. force Fz	275 N
Max. torque Mz 2 Nm Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing 60 N Moving mass 80 g	Max. torque Mx	2 Nm
Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing 60 N Moving mass 80 g	Max. torque My	2 Nm
Theoretical force at 6 bar, advancing 60 N Moving mass 80 g	Max. torque Mz	2 Nm
Moving mass 80 g	Theoretical force at 6 bar, retracting	45 N
	Theoretical force at 6 bar, advancing	60 N
Product weight 154 g	Moving mass	80 g
	Product weight	154 g

Feature	Value
Type of mounting	With through-hole
Pneumatic connection	M5
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