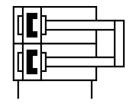
## Mini slide **DGST-8-50-E1A**Part number: 8078837







General operating condition

## **Data sheet**

Priston 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/5  Repetition accuracy	Feature	Value
Drive unit operating mode  Cushioning  Elastomer cushioning, at both ends, stroke not adjustable  Any  Mounting position  Any  Structural design  Twin piston Yoke Piston rod Slide  Position sensing  For proximity sensor  Operating pressure  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  Operating pressure  1.5 mm  Max. force Fy  350 N  Max. force Fy  350 N  Max. force Fy  350 N  Max. torque MX  Max. torque MX  Max. torque MX  Max. torque MY  Max. torque MX	Stroke	50 mm
Elastomer cushioning at both ends, stroke not adjustable Mounting position Any Recirculating position Any Recirculating ball bearing guide Structural design Twin piston Yoke Piston rood Slide Position sensing For proximity sensor O0991249 O099124	Piston diameter	8 mm
Mounting position Suide Recirculating ball bearing guide Structural design Voke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure Oper	Drive unit operating mode	Yoke
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  O.5 m/s  Repetition accuracy  Generation  Operating  Operating  Operating  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operating medium  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  -10 °C 60 °C  Impact energy in the end positions  O.03 J  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. storque My  Max. torque My  Moving mass  I22 g  Moving mass	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
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 8 bar Operating pressure 21.75 psi 116 psi  Max. speed 0.5 m/s  Repetition accuracy 40.3 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 VDMA24364-81/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 350 N  Max. force Fz 350 N  Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My 3 Nm Max. torque Mz Theoretical force at 6 bar, retracting 45 N Moving mass 122 g  Moving mass	Mounting position	Any
Position sensing Position sensing For proximity sensor  Symbol Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure O.5 m/s Max. speed O.5 m/s Operating medium Operating medium Operating medium Operating medium Operating medium Operating and pilot media Operating and pilot media Operation on operating and pilot media Operation on operation operation operation on operation operat	Guide	Recirculating ball bearing guide
Symbol 00991249 Operating pressure 0.15 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. speed 0.5 m/s Repetition accuracy <= 0.3 mm Mode of operating Operating medium 0.0 Double-acting Operating medium 0.0 Operating and pilot media 0.0 Operating 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 350 N Max. force Fy 350 N Max. torque Mx 3.2 Nm Max. torque Mx Max. torque Mx Max. torque My 3 Nm Max. torque My 3 Nm Max. torque Mz Theoretical force at 6 bar, advancing 60 N Moving mass 122 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 Desaure Operating Desaure 21.75 psi 116 psi Max. speed Operating Desaure Operating Desaure Operating Desaure Operating Desaure Operating Mode of operation 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 Operating the large of the sea of th	Position sensing	For proximity sensor
Departing pressure 1.5 bar 8 bar Departing pressure 21.75 psi 116 psi Max. speed 0.5 m/s Repetition accuracy 4 0.5 m/s Repetition accuracy 5 0.5 m/s Departing medium 6 0.5 m/s Departing medium 7 0.5 m/s Departing medium 8 0.5 m/s 0.5 m/s Departing medium 9 0.5 m/s 0.5 m/s Departing medium 9 0.5 m/s 0.5 m/s Departing medium 1 0.5 m/s per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media 1 0.5 m/s of peration with oil lubrication possible (required for further use) Departing medium 9 0.5 m/s	Symbol	00991249
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  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  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. torque Mx  3.2 Nm  Max. torque Mx  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  122 g  Moving mass	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 350 N Max. force Fz 350 N Max. torque Mx 3.2 Nm Max. torque Mx 3.2 Nm Max. torque My 3 Nm Max. torque My 3 Nm Max. torque Mz 45 N Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing 60 N Moving mass 122 g	Operating pressure	1.5 bar 8 bar
Repetition accuracy  Geogration  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  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. force Fz  350 N  Max. torque Mx  3.2 Nm  Max. torque My  Max. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  45 N  Moving mass  Moving mass	Operating pressure	21.75 psi 116 psi
Double-acting Departing 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 350 N Max. force Fz 350 N Max. torque Mx 3.2 Nm Max. torque My 3 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing Moving mass 122 g	Max. speed	0.5 m/s
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 350 N Max. force Fz 350 N Max. torque Mx 3.2 Nm Max. torque My Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Moving mass 122 g Movernable Max operating and pilot media Operation with oil lubrication possible (required for further use)  1 - Low corrosion stress  1 - Low corrosions tress  1 - Low corrosion stress  1 - Low	Repetition accuracy	<= 0.3 mm
Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC)  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  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. torque Mx  3.2 Nm  Max. torque Mx  3.3 Nm  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  122 g	Mode of operation	Double-acting
Corrosion resistance class (CRC)  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  0.03 J  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. force Fz  350 N  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque My  3 Nm  Max. torque Mz  45 N  Theoretical force at 6 bar, retracting  Theoretical force at 6 bar, advancing  Moving mass  122 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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 350 N Max. force Fz 350 N Max. torque Mx 3.2 Nm Max. torque My 3 Nm Max. torque My 3 Nm Max. torque Mz 45 N Theoretical force at 6 bar, retracting Moving mass 122 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.03 J  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque My  3 Nm  Theoretical force at 6 bar, retracting  Theoretical force at 6 bar, advancing  Moving mass  Class 6 according to ISO 14644-1  -10 °C 60 °C  -10 °C 60	Corrosion resistance class (CRC)	1 - Low corrosion stress
Ambient temperature Impact energy in the end positions O.03 J Cushioning length I.5 mm Max. force Fy 350 N Max. torque Mx 3.2 Nm Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Moving mass  -10 °C 60 °C O.03 J O.03 J O.03 J O.04 S O.05 S O.07 S O.08	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Impact energy in the end positions  Cushioning length  1.5 mm  Max. force Fy  350 N  Max. force Fz  350 N  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque Mz  3 Nm  Theoretical force at 6 bar, retracting  Moving mass  122 g	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length  Max. force Fy  350 N  Max. torque Mx  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  1.5 mm  1.6 N  1.7 N	Ambient temperature	-10 °C 60 °C
Max. force Fy  Max. force Fz  350 N  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque Mz  3 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  122 g	Impact energy in the end positions	0.03 J
Max. force Fz  350 N  Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque Mz  3 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  122 g	Cushioning length	1.5 mm
Max. torque Mx  3.2 Nm  Max. torque My  3 Nm  Max. torque Mz  3 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  Moving mass  122 g	Max. force Fy	350 N
Max. torque My  Max. torque Mz  3 Nm  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  60 N  Moving mass  122 g	Max. force Fz	350 N
Max. torque Mz  Theoretical force at 6 bar, retracting  45 N  Theoretical force at 6 bar, advancing  60 N  Moving mass  122 g	Max. torque Mx	3.2 Nm
Theoretical force at 6 bar, retracting 45 N Theoretical force at 6 bar, advancing 60 N Moving mass 122 g	Max. torque My	3 Nm
Theoretical force at 6 bar, advancing 60 N Moving mass 122 g	Max. torque Mz	3 Nm
Moving mass 122 g	Theoretical force at 6 bar, retracting	45 N
	Theoretical force at 6 bar, advancing	60 N
Product weight 236 g	Moving mass	122 g
	Product weight	236 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