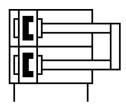
## Mini slide **DGST-12-50-E1A**Part number: 8078850

**FESTO** 





General operating condition

## **Data sheet**

Drive unit operating mode  Tyoke Unit operating mode  Yoke  Elastomer cushioning, at both ends, stroke not adjustable  Any Mounting position  Any  Structural design  Twin piston Yoke Piston rod Slide  Piston rod Slide  Poperating pressure  On 1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  O.5 m/S  Repelition accuracy  Geo operation  Double-acting  Doperating medium  Information on operating and pilot media  Operating medium  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for further use)  Operating with oil lubrication possible (required for furt	Feature	Value
Trive unit operating mode  Cushioning  Elastomer cushioning, at both ends, stroke not adjustable  Any  Soulde  Recirculating ball bearing guide  Structural design  Twin piston Yoke Piston rod Slide  Operating pressure  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]  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]  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]  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]  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]  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]  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]  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]  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]  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operating medium  Compressed air	Stroke	50 mm
Elastomer cushioning at both ends, stroke not adjustable Mounting position Any Recirculating ball bearing guide Structural design Twin piston Yoke Piston rod Slide Operating pressure Operating ope	Piston diameter	12 mm
Mounting position  Any  Recirculating ball bearing guide  Structural design  Twin piston Yoke Piston rod Slide  Position sensing For proximity sensor  Symbol  Operating pressure  O.1 MPa 0.8 MPa  Operating pressure  1 bar 8 bar  Operating pressure  0.5 m/s  Repetition accuracy  Geoperating 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]  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]  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]  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]  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]  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]  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]  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]  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]  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]  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]  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]  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]  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Op	Drive unit operating mode	Yoke
Recirculating ball bearing guide  Structural design  Twin piston Yoke Piston rod Slide  Position sensing  Por proximity sensor  Symbol  Operating pressure  On 1 MPa 0.8 MPa Operating pressure  1 bar 8 bar Operating pressure  1 bar 8 bar Operating pressure  1 0.5 m/s  Repetition accuracy  Acceptition accuracy  Accepti	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Twin piston Yoke Piston rod Slide  Position sensing For proximity sensor  Symbol 00991249  Operating pressure 0.1 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 < 0.5 m/s  Repetition accuracy (	Mounting position	Any
Position sensing Position sensing For proximity sensor  Symbol Operating pressure Operati	Guide	Recirculating ball bearing guide
Symbol 00991249 Operating pressure 0.1 MPa 0.8 MPa Departing pressure 1 bar 8 bar Operating pressure 1.4.5 psi 116 psi Max. speed 0.5 m/s Repetition accuracy	Structural design	Yoke Piston rod
Operating pressure Operating operation Operating pressure Operating operation Operating pressure Operating p	Position sensing	For proximity sensor
Departing pressure 1 bar 8 bar  Departing 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]  Departing medium Operating and pilot media Operation with oil lubrication possible (required for further use)  Departing resistance class (CRC) 1 - Low corrosion stress  Class (PWIS) conformity VDMA24364-B1/B2-L  Cleanroom class Class CRC Class 6 according to ISO 14644-1  Ambient temperature -10 °C 60 °C  Departing in the end positions 0.07 J  Cushioning length 1.1 mm  Max. force Fy 580 N  Max. force Fy 580 N  Max. torque Mx 7 Nm  Max. torque Mx 7 Nm  Max. torque My 5.8 Nm  Cheoretical force at 6 bar, retracting 102 N  Cheoretical force at 6 bar, advancing 136 N  Moving mass 290 g	Symbol	00991249
Departing pressure  14.5 psi 116 psi  Max. speed  0.5 m/s  Repetition accuracy  4 = 0.3 mm  Double-acting  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Departing medium  Corrosion resistance class (CRC)  1 - Low corrosion stress  Class 6 according to ISO 14644-1  Cleanroom class  Class 6 according to ISO 14644-1  Cleanroom class  Cuss 6 according to ISO 14644-1  Cleanroom class  Cuss 6 according to ISO 14644-1  In mm  Max. force Fy  580 N  Max. force Fy  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque My  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  1290 g	Operating pressure	0.1 MPa 0.8 MPa
Max. speed 0.5 m/s Repetition accuracy <= 0.3 mm Repetition accuracy <= 0.3 mm Repetition accuracy	Operating pressure	1 bar 8 bar
Repetition accuracy  Geopetition accuracy  Mode of operation  Double-acting  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  ABS (PWIS) conformity  VDMA24364-B1/B2-L  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C 60 °C  Max. force Fy  580 N  Max. force Fy  580 N  Max. torque Mx  7 Nm  Max. torque Mx  7 Nm  Max. torque My  Max. torque My  Max. torque Mz  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  290 g  Moving mass	Operating pressure	14.5 psi 116 psi
Double-acting Deperating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deperating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Deperation resistance class (CRC) 1 - Low corrosion stress  Labs (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Cleanroom class Class 6 according to ISO 14644-1 Cleanroom length Do °C 60 °C Do °C Do °C Do So N Do Note of Py Do Note o	Max. speed	0.5 m/s
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  Class (PWIS) conformity  VDMA24364-B1/B2-L  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 ° C 60 ° C  In mm  Max. force Fy  580 N  Max. torque Mx  Max. torque Mx  Max. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Moving mass  Compressed air as per ISO 8573-1:2010 [7:4:4]  Operation with oil lubrication possible (required for further use)  1 - Low corrosion stress  Class 6 according to ISO 14644-1  -10 ° C 60 ° C  0.07 J  1.1 mm  580 N  7 Nm  580 N  7 Nm  580 N  7 Nm  19.8 Nm  19.9 Nm	Repetition accuracy	<= 0.3 mm
Operation with oil lubrication possible (required for further use)  1 - Low corrosion stress  ABS (PWIS) conformity  VDMA24364-B1/B2-L  Clean class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C 60 °C  mpact energy in the end positions  Cushioning length  1.1 mm  Max. force Fy  580 N  Max. torque Mx  7 Nm  Max. torque Mx  Max. torque My  Max. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  Theoretical force at 6 bar, advancing  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  0.07 J  580 N  7 Nm  580 N  7 Nm  580 N  7 Nm  10 N  10	Mode of operation	Double-acting
Corrosion resistance class (CRC)  1 - Low corrosion stress  VDMA24364-B1/B2-L  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C 60 °C  mpact energy in the end positions  0.07 J  Cushioning length  1.1 mm  Max. force Fy  580 N  Max. force Fz  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque My  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Moving mass  290 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
ABS (PWIS) conformity  VDMA24364-B1/B2-L  Cleanroom class  Class 6 according to ISO 14644-1  Ambient temperature  -10 °C 60 °C  mpact energy in the end positions  0.07 J  Cushioning length  1.1 mm  Max. force Fy  580 N  Max. force Fz  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque My  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Moving mass  290 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  mpact energy in the end positions 0.07 J  Cushioning length 1.1 mm  Max. force Fy 580 N  Max. force Fz 580 N  Max. torque Mx 7 Nm  Max. torque My 5.8 Nm  Theoretical force at 6 bar, retracting 102 N  Moving mass Class 6 according to ISO 14644-1  -10 °C 60 °C  -1	Corrosion resistance class (CRC)	1 - Low corrosion stress
Ambient temperature -10 °C 60 °C mpact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 580 N Max. force Fz 580 N Max. torque Mx 7 Nm Max. torque My 5.8 Nm Max. torque Mz 5.8 Nm Theoretical force at 6 bar, retracting 102 N Moving mass 290 g	LABS (PWIS) conformity	VDMA24364-B1/B2-L
mpact energy in the end positions  O.07 J  Cushioning length  1.1 mm  Max. force Fy  580 N  Max. force Fz  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque Mz  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  0.07 J  0.0	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length  Max. force Fy  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting  Theoretical force at 6 bar, advancing  Moving mass  1.1 mm  1.1 mm  1.2 N  1.3 N  1.4 N  1.5 N  1.5 N N  1.5 N N  1.6 N  1.7 N N  1.7 N N  1.8 N N  1.8 N N  1.9	Ambient temperature	-10 °C 60 °C
Max. force Fy  Max. force Fz  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque Mz  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  290 g	Impact energy in the end positions	0.07 J
Max. force Fz  580 N  Max. torque Mx  7 Nm  Max. torque My  5.8 Nm  Max. torque Mz  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  136 N  Moving mass  290 g	Cushioning length	1.1 mm
Max. torque Mx 7 Nm  Max. torque My 5.8 Nm  Max. torque Mz 5.8 Nm  Theoretical force at 6 bar, retracting 102 N  Theoretical force at 6 bar, advancing 136 N  Moving mass 290 g	Max. force Fy	580 N
Max. torque My  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  136 N  Moving mass  290 g	Max. force Fz	580 N
Max. torque Mz  5.8 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  136 N  Moving mass  290 g	Max. torque Mx	7 Nm
Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Woving mass 290 g	Max. torque My	5.8 Nm
Theoretical force at 6 bar, advancing 136 N  Moving mass 290 g	Max. torque Mz	5.8 Nm
Moving mass 290 g	Theoretical force at 6 bar, retracting	102 N
	Theoretical force at 6 bar, advancing	136 N
Product weight 611 g	Moving mass	290 g
	Product weight	611 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