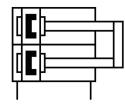
Mini slide **DGST-6-50-E1A**Part number: 8078832

FESTO





General operating condition

Data sheet

Piston diameter 6 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 O.15 MPa 0.8 MPa Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Operating pressure 3.5 m/s Repetition accuracy « 0.3 mm Mode of operation Double-acting Operating medium Compressed are 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 CLABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Cushoning length 0.9 mm Max. force Fy 280 N Max. force ISO SA Advancing 34 N Moving mass 48 g Moving mass 48 g Moving mass Moving mass Moving mass 8 g Moving mass 8 g Moving mass 9 8 g	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] 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	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 Position sensing For proximity sensor Operating pressure Operating medium Operation accuracy Operating medium Operating medium Operating medium Operating medium Operating pressure Operating p	Piston diameter	6 mm
Mounting position Suide Recirculating ball bearing guide Structural design Twin piston Yoke Piston rod Silide Position sensing For proximity sensor Symbol Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Of Silide Operating pressure Operation operating op	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 Operatin	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 < 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 VDMA24364-81/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature -10 ° C 60 ° C Impact energy in the end positions 0.012 J Custioning length 0.9 mm Max. force Fy 280 N Max. force Fy 280 N Max. torque Mx Max. torque Mx Max. torque My 1.2 Nm Max. torque Mz Theoretical force at 6 bar, advancing 34 N Moving mass Moving mass Moving mass	Mounting position	Any
Position sensing Position sensing For proximity sensor Symbol Operating pressure Operating pressure 1.5 bar 8 bar Operating pressure 21.75 psi 116 psi Max. speed O.5 m/s Repetition accuracy Generating medium Operating medium Operating medium Operating and pilot media 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 Operating le	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 Wax. speed 0.5 m/s Repetition accuracy <= 0.3 mm Mode of operating Operating medium 0.0 compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium 0.0 perating and pilot media 0.0 peration 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 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fy 280 N Max. torque Mx 1.4 Nm Max. torque Mx Max. torque My 1.2 Nm Max. torque MZ Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 48 g Moving mass 88 g	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 Max. speed Operatin	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 4 0.5 m/s Departing medium 0.5 m/s Departing medium 0.5 m/s 0.5 m/s D	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 0.9 mm Max. force Fy 280 N Max. torque Mx 1.4 Nm Max. torque Mx Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 88 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 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque Mx 1.2 Nm Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 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 O.012 J Cushioning length O.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm 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 88 g 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 O.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing Moving mass 88 g	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 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 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing Moving mass 88 g	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 0.9 mm Max. force Fy 280 N Max. torque Mx 1.4 Nm Max. torque Mx 1.2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 25 N Moving mass 88 g Moving mass	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 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 88 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 88 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 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 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	Corrosion resistance class (CRC)	1 - Low corrosion stress
Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.012 J Cushioning length 0.9 mm Max. force Fy 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 88 g	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Impact energy in the end positions O.012 J Cushioning length O.9 mm Max. force Fy 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque Mz Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass O.012 J O.012	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length Max. force Fy 280 N Max. torque Mx Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 88 g	Ambient temperature	-10 °C 60 °C
Max. force Fy Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque Mz 1.2 Nm Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing Moving mass 88 g	Impact energy in the end positions	0.012 J
Max. force Fz 280 N Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque Mz 1.2 Nm Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Cushioning length	0.9 mm
Max. torque Mx 1.4 Nm Max. torque My 1.2 Nm Max. torque Mz 1.2 Nm Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Max. force Fy	280 N
Max. torque My 1.2 Nm Max. torque Mz 1.2 Nm Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Max. force Fz	280 N
Max. torque Mz Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Max. torque Mx	1.4 Nm
Theoretical force at 6 bar, retracting 25 N Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Max. torque My	1.2 Nm
Theoretical force at 6 bar, advancing 34 N Moving mass 88 g	Max. torque Mz	1.2 Nm
Moving mass 88 g	Theoretical force at 6 bar, retracting	25 N
	Theoretical force at 6 bar, advancing	34 N
Product weight 172 g	Moving mass	88 g
	Product weight	172 g

Feature	Value
Type of mounting	With through-hole
Pneumatic connection	M3
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