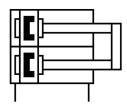
Mini slide **DGST-12-40-E1A**Part number: 8078849

FESTO





General operating condition

Data sheet

Piston diameter 12 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 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 Class 6 according to ISO 14644-1 Ambient temperature 1.0 °C 60 °C Impact energy in the end positions Cushioning length Max. force Fy 560 N Max. torque Mx Mx torque M	Feature	Value
Drive unit operating mode Cushioning Elastomer cushioning, at both ends, stroke not adjustable Any Mounting position Any Structural design Structural design Position sensing Position sensing Poperating pressure Operating operating Operating operating Operating operating Operating operating Operating pressure I 44.5 psi 116 psi Operating pressure Operating operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media 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 Op7 J Cushioning length 1.1 mm Max. force F2 S60 N Max. torque MX Max. force F2 S60 N Max. torque MX Max. torque My Max. torque My Max. torque My Max. torque Mr Max. t	Stroke	40 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 0.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 4.5 psi 116 psi Max. speed 5.5 m/s Repetition accuracy 6.0 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 VDMA24364-B1/B2-L Clearroom class Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. torque Mx Max. torque Mx Max. torque My Max. torque Mx Max. torque My Max. torque Max Max. torque Max Max. torque Max Max. torque My Max. torque Max Max. torque	Piston diameter	12 mm
Mounting position Guide Recirculating ball bearing guide Structural design Voke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure On 1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 0.5 m/s 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 Operation resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-81/82-1 Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 10 °C 60 °C Impact energy in the end positions O.07 J Cushioning length Max. force F2 S60 N Max. torque MX Max. torque MX Max. torque MX Max. torque MM Max. torque MX Max. torque M2 Theoretical force at 6 bar, advancing Moving mass 284 g Moving mass	Drive unit operating mode	Yoke
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 bar 8 bar Operating pressure 1 bar 8 bar Operating pressure Operating pressure 1 0.5 m/s Repetition accuracy 4 ~ 0.3 mm Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Operating sensor sensitance 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 OOJ Max. force Fy S60 N 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 Moving mass Oogenation in justing the sensor in the	Cushioning	Elastomer cushioning, at both ends, stroke not adjustable
Structural design Twin piston Yoke Piston rod Slide For proximity sensor Operating pressure O.1 MPa 0.8 MPa Operating pressure 1 bar 8 bar Operating pressure 1 ta. 5 psi 116 psi Max. speed O.5 m/s Repetition accuracy Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-81/B2-L Clearnoom class Class 6 according to ISO 14644-1 Ambient temperature Inpact energy in the end positions Cushioning length 1.1 mm Max. force Fy 560 N Max. torque My Max. torque Mx Max. torque Mx Max. torque Mx Max. torque Mz Max. torque Mz Theoretical force at 6 bar, advancing Moving mass Operating well as the sense of t	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 Operating 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 1-10 °C 60 °C Impact energy in the end positions Output Max. force Fy Max. force Fy Max. torque My Max. torque Mx M	Guide	Recirculating ball bearing guide
Operating pressure Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 14.5 psi 116 psi Max. speed Operating Descuracy Mode of operating Operating medium Operating with oil lubrication possible (required for further use) Operation resistance class (CRC) 1 - Low corrosion stress UABS (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.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 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	Structural design	Yoke Piston rod
Operating pressure 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 1-10 °C 60 °C Impact energy in the end positions Out J In mm Max. force Fy S60 N Max. force Fy S60 N Max. torque Mx S.8 Nm Max. torque My S.8 Nm Max. torque My S.8 Nm Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing Moving mass 284 g	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 Pressure 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 CRC) Class 6 according to ISO 14644-1 Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque Mx 5.8 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 284 g	Symbol	00991249
Operating pressure 14.5 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 Cushioning length 1.1 mm Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque Mx 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 284 g	Operating pressure	0.1 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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 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 136 N Moving mass 284 g	Operating pressure	1 bar 8 bar
Repetition accuracy Generating Mode of operation 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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 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 284 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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque Mx 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 284 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.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. torque Mx 5.8 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 Compressed air as per ISO 8573-1:2010 [7:4:4] Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress 102 N Theoretical force at 6 bar, advancing Moving mass	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 1.1 mm Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 Nm Max. torque Mz Theoretical force at 6 bar, retracting 136 N Moving mass Operation with oil lubrication possible (required for further use) 1 - Low corrosion stress 2 - Low corrosion stress 1 - Low corrosion stress 2 - Low corrosion stress 1 - Low corrosion stress 2 - Low corrosion stress 3 - Low corrosion stress 4 - Low corrosion stress 5 - Low corrosion	Mode of operation	Double-acting
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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 Nm Max. torque My 5.8 Nm Theoretical force at 6 bar, retracting 102 N Moving mass 284 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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 Nm Max. torque My 5.8 Nm Theoretical force at 6 bar, retracting 102 N Moving mass 284 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 0.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 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.07 J Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass -10 °C 60 °C O.07 J O.07	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Impact energy in the end positions Cushioning length 1.1 mm Max. force Fy 560 N Max. force Fz 560 N Max. torque Mx 5.8 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 284 g	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length Max. force Fy 560 N Max. torque Mx 5.8 Nm Max. torque My 5.8 Nm Max. torque Mz 5.8 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 1.1 mm 1.1 mm 1.1 mm 1.2 N 1.3 N 1.4 N 1.5 N 1.5 N 1.5 N 1.5 N 1.5 N 1.6 N 1.7 N 1.8 N 1.8 N 1.9 N 1.9 N 1.9 N 1.9 N 1.9 N 1.0	Ambient temperature	-10 °C 60 °C
Max. force Fy Max. force Fz 560 N Max. torque Mx 5.8 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 284 g	Impact energy in the end positions	0.07 J
Max. force Fz 560 N Max. torque Mx 5.8 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 284 g	Cushioning length	1.1 mm
Max. torque Mx 5.8 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 284 g	Max. force Fy	560 N
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 284 g	Max. force Fz	560 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 284 g	Max. torque Mx	5.8 Nm
Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 284 g	Max. torque My	5.8 Nm
Theoretical force at 6 bar, advancing 136 N Moving mass 284 g	Max. torque Mz	5.8 Nm
Moving mass 284 g	Theoretical force at 6 bar, retracting	102 N
	Theoretical force at 6 bar, advancing	136 N
Product weight 563 g	Moving mass	284 g
	Product weight	563 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