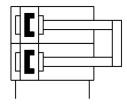
Mini slide **DGST-12-20-E1A**Part number: 8078847

FESTO





Data sheet

Repetition accuracy	Feature	Value
High-alloy steel Stroke 20 mm Piston diameter Type code 055T Drive unit operating mode Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Design Wini piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol 00991249 Operating pressure 1 bar 8 bar Operating pressure 0.1 MPa 0.8 MPa Max. speed 0.5 m/s Repetition accuracy	Guide material	
Stroke 20 mm Piston diameter 12 mm Type code DGST Drive unit operating mode Yoke Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol 00991249 Operating pressure 10 ar 8 bar Operating pressure 0.1 MPa 0.8 MPa 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 Ambient temperature 1-0 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. torque Mx 4.2 k		
Piston diameter 12 mm Type code DGST Drive unit operating mode Yoke Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Design Twin piston Yoke Piston rod Silde Position sensing For proximity sensor Symbol 00991249 Operating pressure 1 bar 8 bar Operating pressure 0.1 MPa 8 MPa Max. speed 0.5 m/s Repetition accuracy < 0.3 mm Mode of operation 0 Double-acting Operating medium Compressed air as per ISO 8573-1:2010[7:4:4] Information on operating and pilot media Operation or operating and pilot media Operation 1-1 wc corrosion stress Ambient temperature 1-0 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length Max. force Fy 520 N Max. force Fy 520 N Max. torque MX 4.2 Nm Max. torque MM Max. torque MA Max.	Stroke	
Type code DGST Drive unit operating mode Yoke Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Design Twin piston Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating medium Mode of operation Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Operating stance class (CRC) 1 - Low corrosion stress Ambient temperature Impact energy in the end positions Out Max. force Fz Max. torque Mx Max. torque Mx Max. torque My Moving mass DGST Voke Trientical force at 6 bar, retracting Towns I and position in adjustable media in the more in the media in t		
Drive unit operating mode Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol Operating pressure Operating pressure O1 MPa 08 MPa Max. speed O5 m/s Repetition accuracy (= 0.3 mm Mode of operation Operating medium Information on operating and pilot media Operating and pilot media Operation or operating and pilot media Operation energy in the end positions Oxor J Cushioning length Max. force Fz Max. force Fz Max. torque Mx Max. torque Mx Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque Mx Max. torque Max Moving mass 238 g		
Cushioning Elastomer cushioning, at both ends, stroke not adjustable Mounting position Any Guide Recirculating ball bearing guide Design Twin piston Yoke Piston rod Silide Symbol 600 proximity sensor Symbol 00991249 Operating pressure 0.1 MPa 0.8 MPa Max. speed 0.5 m/s Repetition accuracy <= 0.3 mm	<u> </u>	
Mounting position Guide Recirculating ball bearing guide Position Position sensing Position sensing Position sensing Poperating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure On 1 MPa 0.8 MPa Max. speed Operating Departion Operating O	·	
Guide Recirculating ball bearing guide Design Twin piston Yoke Piston rod Slide Position sensing For proximity sensor Symbol 00991249 Operating pressure 1 bar 8 bar Operating pressure 0.1 MPa 0.8 MPa 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 Ambient temperature 10° C 60° C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. torque Mx 4.2 Nm Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 238 g		-
Design Win piston Yoke Piston rod Stide Position sensing For proximity sensor Posymbol Operating pressure 1 bar 8 bar Operating pressure 0.1 MPa 0.8 MPa Max. speed 8.2 mm Mode of 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 (CRC) 1- Low corrosion stress Ambient temperature 1.0 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. force Fy 520 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Theoretical force at 6 bar, retracting 12 N Moving mass 238 g		
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Position sensingSlideSymbol00991249Operating pressure1 bar 8 barOperating pressure0.1 MPa 0.8 MPaMax. speed0.5 m/sRepetition accuracy< -0.3 mm	Design	
Position sensing Symbol Operating pressure Operating pressure Operating pressure On MPa 0.8 MPa Max. speed Operating and pilot media Operating and pilot media Operating the end positions Composition sensistance class (CRC) Ambient temperature Impact energy in the end positions Out of Cushioning length Max. force Fy Max. force Fy Max. torque Mx		
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Operating pressure Operating pressure Operating medium Operating medium Operating and pilot media Operation on operating and pilot media Operation seistance class (CRC) Ambient temperature Impact energy in the end positions Out J Cushioning length Max. force Fy Max. force Fz Max. torque Mx Max. torque Mx Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Max. do not many and positions O.1 MPa 0.8 MPa O.2 mm Operating medium Operating well as per ISO 8573-1:2010 [7:4:4] Operating with oil lubrication possible (required for further use) 1 - Low corrosion stress 1 - Low corrosion stress O.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. torque Mx 4.2 Nm Max. torque Mx Max. torque fy	•	
Max. speed 0.5 m/s Repetition accuracy		
Repetition accuracy	Operating pressure	0.1 MPa 0.8 MPa
Mode of operationDouble-actingOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressAmbient temperature-10 °C 60 °CImpact energy in the end positions0.07 JCushioning length1.1 mmMax. force Fy520 NMax. force Fz520 NMax. torque Mx4.2 NmMax. torque My4.2 NmMax. torque Mz4.2 NmTheoretical force at 6 bar, retracting102 NTheoretical force at 6 bar, advancing136 NMoving mass238 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 Ambient temperature 10°C60°C Impact energy in the end positions O.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. force Fz 520 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing Moving mass 238 g	Repetition accuracy	<= 0.3 mm
Information on operating and pilot media Corrosion resistance class (CRC) Ambient temperature Impact energy in the end positions Cushioning length Max. force Fy Max. force Fz Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Moving mass Departion with oil lubrication possible (required for further use) 1 - Low corrosion stress 0.07 J 1 - Inm 0.07 J 1.1 mm 520 N 520 N 4.2 Nm 4.2 Nm 4.2 Nm 102 N 102 N 104 N Moving mass 238 g	Mode of operation	Double-acting
Corrosion resistance class (CRC) Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. force Fz 520 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 136 N Moving mass	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature -10 °C 60 °C Impact energy in the end positions 0.07 J Cushioning length 1.1 mm Max. force Fy 520 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 238 g	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Impact energy in the end positions Cushioning length Max. force Fy 520 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 0.07 J 1.1 mm 0.07 J 1.1 mm 4.2 N 520 N 4.2 N 4.2 N 4.2 N 4.2 N 4.2 N 4.2 N 102 N 136 N 238 g	Corrosion resistance class (CRC)	1 - Low corrosion stress
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Max. force Fy520 NMax. force Fz520 NMax. torque Mx4.2 NmMax. torque My4.2 NmMax. torque Mz4.2 NmTheoretical force at 6 bar, retracting102 NTheoretical force at 6 bar, advancing136 NMoving mass238 g	Impact energy in the end positions	0.07 J
Max. force Fz Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 520 N 4.2 Nm 4.2 Nm 4.2 Nm 102 N 136 N 238 g	Cushioning length	1.1 mm
Max. torque Mx Max. torque My 4.2 Nm Max. torque Mz 4.2 Nm Max. torque Mz 4.2 Nm Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing Moving mass 238 g	Max. force Fy	520 N
Max. torque My Max. torque Mz Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Moving mass 4.2 Nm 102 N 136 N 238 g	Max. force Fz	520 N
Max. torque Mz Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 238 g	Max. torque Mx	4.2 Nm
Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 238 g	Max. torque My	4.2 Nm
Theoretical force at 6 bar, advancing 136 N Moving mass 238 g	Max. torque Mz	4.2 Nm
Moving mass 238 g	Theoretical force at 6 bar, retracting	102 N
	Theoretical force at 6 bar, advancing	136 N
Product weight 456 g	Moving mass	238 g
	Product weight	456 g

Feature	Value
Type of mounting	With through-hole
Pneumatic connection	M5
Note on materials	Free of copper and PTFE RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	HNBR
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel