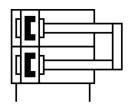
## Mini slide **DGST-12-30-E1A**Part number: 8078848







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	Feature	Value
Drive unit operating mode  Cushioning  Elastomer cushioning, at both ends, stroke not adjustable  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  Repetition accuracy  (~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  Operating one 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  O.07 J  Cushioning length  1.1 mm  Max. force Fy  S40 N  Max. force Fy  S40 N  Max. torque MX  Max. torque MC  Max. advancing  Hoving mass  Overiginass  Labs (R) N  Information force at 6 bar, retracting  Theoretical force at 6 bar, advancing  Moving mass  Labs (R) N  Moving mass  Lab (R) N  Any  Are true the distributed and positions  Lab (R) N  Moving mass  Lab (R) N  Max. torque MX  Moving mass  Lab (R) N	Stroke	30 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 VDMA246-B1/B2-L  Class for according to ISO 14644-1  Ambient temperature 1.0 °C 60 °C  Impact energy in the end positions 0.07 J  Cushioning length 1.1 mm  Max. force Fy 540 N  Max. torque Mx  Max. torque Mx  Max. torque Mx  Max. torque My  Max. torque My  Max. torque My  Max. torque Mx  Max. torque My  Max. torque Mx  Mx torque Mx	Piston diameter	12 mm
Mounting position Guide 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 0.5 m/s Repetition accuracy 4 c - 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 operating and pilot media Operation with oil lubrication possible (required for further use) 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 OO7 J Cushioning length 1.1 mm Max. force F2 540 N Max. torque Mx Max. torque Mx Max. torque Mx Max. torque Mz Moving mass  422 g Moving mass	Drive unit operating mode	Yoke
Guide 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 Oper	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 tar. 9 bar Operating pressure  1 tar. 16 par Opera	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 Departing Department Departing Department	Guide	Recirculating ball bearing guide
Operating pressure Operating pressure Operating pressure 1 bar 8 bar Operating pressure 1 to 5 m/s Repetition accuracy Coperating medium Operating medium Operating medium Operating and pilot media Operating on operating and pilot media Operating class (CRC) LABS (PWIS) conformity VDMA24364-B1/B2-L Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature Inpact energy in the end positions Outple server Usual Score Fy S40 N Max. force Fy Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque My Max. torque Mz Moving mass Operating meass It bar 8 bar Operating Mean Operating Mean Operating Mean Operating	Structural design	Yoke Piston rod
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 medium Operating and pilot media Operation with oil lubrication possible (required for further use) Operation 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.07 J  Cushioning length 1.1 mm Max. force Fy 540 N Max. force Fz 540 N Max. torque Mx 4.2 Nm Max. torque Mx 4.2 Nm Max. torque Mz 4.2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing Moving mass 242 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 <= 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-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 540 N Max. force Fz 540 N Max. torque Mx 4.2 Nm Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing 136 N Moving mass 242 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 540 N  Max. torque Mx 4.2 Nm  Max. torque Mx 4.2 Nm  Max. torque My 4.2 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting 102 N  Theoretical force at 6 bar, advancing Moving mass  242 g	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  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 540 N  Max. force Fz 540 N  Max. torque Mx 4.2 Nm  Max. torque My 4.2 Nm  Max. torque My 4.2 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting 102 N  Theoretical force at 6 bar, advancing 136 N  Moving mass 242 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)  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  540 N  Max. force Fz  540 N  Max. torque Mx  4.2 Nm  Max. torque My  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  242 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 540 N Max. force Fz 540 N Max. torque Mx 4.2 Nm Max. torque My 4.2 Nm Max. torque Mz Theoretical force at 6 bar, retracting 102 N Theoretical force at 6 bar, advancing Moving mass 242 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  540 N  Max. force Fz  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 Nm  Max. torque My  Max. torque Mz  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  242 g	Repetition accuracy	<= 0.3 mm
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  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  540 N  Max. force Fz  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 Nm  Max. torque My  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  1 - Low corrosion stress  2 - Low corrosion stress  1 - Low corrosion stress  2 - Low corrosion stress  3 - Low corrosion stress  4 - Low corrosion stres	Mode of operation	Double-acting
Corrosion resistance class (CRC)  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  540 N  Max. force Fz  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 Nm  Max. torque My  4.2 Nm  Max. torque Mz  Theoretical force at 6 bar, retracting  136 N  Moving mass  242 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  540 N  Max. force Fz  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 Nm  Max. torque My  4.2 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  Moving mass  242 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  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 Nm  Max. torque My  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	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 540 N Max. force Fz 540 N Max. torque Mx 4.2 Nm Max. torque My 4.2 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
Cushioning length 1.1 mm  Max. force Fy 540 N  Max. force Fz 540 N  Max. torque Mx 4.2 Nm  Max. torque My 4.2 Nm  Theoretical force at 6 bar, retracting 102 N  Theoretical force at 6 bar, advancing 136 N  Moving mass 242 g	Cleanroom class	Class 6 according to ISO 14644-1
Cushioning length  Max. force Fy  540 N  Max. torque Mx  4.2 Nm  Max. torque My  4.2 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  1.5 N  1.6 N  1.7 N  1.8 N  1.8 N  1.8 N  1.9 N  1.9 N  1.9 N  1.0 N	Ambient temperature	-10 °C 60 °C
Max. force Fy  Max. force Fz  540 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  Moving mass  242 g	Impact energy in the end positions	0.07 J
Max. force Fz 540 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 242 g	Cushioning length	1.1 mm
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  242 g	Max. force Fy	540 N
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  242 g	Max. force Fz	540 N
Max. torque Mz  4.2 Nm  Theoretical force at 6 bar, retracting  102 N  Theoretical force at 6 bar, advancing  136 N  Moving mass  242 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 242 g	Max. torque My	4.2 Nm
Theoretical force at 6 bar, advancing 136 N Moving mass 242 g	Max. torque Mz	4.2 Nm
Moving mass 242 g	Theoretical force at 6 bar, retracting	102 N
	Theoretical force at 6 bar, advancing	136 N
Product weight 501 g	Moving mass	242 g
	Product weight	501 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