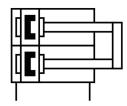
## Mini slide DGST-8-40-E1A Part number: 8078836



General operating condition

## **Data sheet**

| Piston diameterR mmDrive unit operating modeYokeCushioningElastomer cushioning, at both ends, stroke not adjustableMounting positionAnyGuideRecirculating ball bearing guideStructural designTwin piston<br>YokePosition sensingFor proximity sensorPosition sensingFor proximity sensorSymbol00991249Operating pressure0.15 MPa 0.8 MPaOperating pressure0.5 m/sOperating pressure0.5 m/sRepetition accuracy<= 0.3 mmMax. speed0.5 m/sRepetition accuracy<= 0.3 mmMode of operating and pilot mediaOperating pressureOperating mesture1.16 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mmMode 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 stressLABS (PWIS) conformityVDM24346-41/AA-11Cushioning length1.5 mmAns. force Fy325 NMax. force Fy325 NMax. force Fy325 NMax. torque MX3 NmMax. torque MX2.5 NmMax. torque MX45 NTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g  | Feature                                  | Value  |
|---|--|--|
| 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<br>Yoke       Pristion rod     Slide       Position sensing     For proximity sensor       Symbol     00991249       Operating pressure     0.15 MPa0.8 MPa       Operating pressure     1.5 bar 8 bar       Operating pressure     0.5 m/s       Repetition accuracy     <= 0.3 mm  | Stroke                                   | 40 mm  |
| CushioningElastomer cushioning, at both ends, stroke not adjustableMounting positionAnyGuideRecirculating ball bearing guideStructural designTwin piston<br>Yoke<br>Piston rod<br>SildePosition sensingFor proximity sensorOperating pressure0.5 MPa0.8 MPa<br>   | Piston diameter                          | 8 mm   |
| Mounting positionAnyGuideRecirculating ball bearing guideStructural designTwin piston<br>Yoke<br>Piston rod<br>SildePosition sensingOperating pressureOperating pressure0.15 MPa 0.8 MPaOperating pressure0.15 MPa 0.8 MPaOperating pressure0.15 MPa 0.8 MPaOperating pressure0.5 m/s 0.8 MPaMax opeed0.5 m/s 0.8 MPaOperating 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 seistance class (CRC)1 - Low corrosion stressLASS (PWIS) conformityVDM24364-81/82-1Cleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fz325 NMax. torque Mx3 NmMax. torque Mx3 Nm <trt< td=""><td>Drive unit operating mode</td><td>Yoke</td></trt<> | Drive unit operating mode                | Yoke   |
| Guide   Recirculating ball bearing guide     Structural design   Twin piston<br>Yoke<br>Piston rod<br>Slide     Position sensing   For proximity sensor     Symbol   00991249     Operating pressure   0.15 MPa 0.8 MPa     Operating pressure   0.5 m/s     Operating pressure   0.5 m/s     Repetition accuracy   <= 0.3 mm   | Cushioning                               | Elastomer cushioning, at both ends, stroke not adjustable          |
| Structural designTwin piston<br>Yoke<br>Piston rod<br>SildePosition sensingFor proximity sensorSymbol009912A9Operating pressure0.15 MPa 0.8 MPaOperating pressure1.5 bar 8 barOperating pressure21.75 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm  | Mounting position                        | Any  |
| Yoke<br>Piston rod<br>SitidePosition sensingFor proximity sensorSymbol00991249Operating pressure0.15 MPa 0.8 MPaOperating pressure0.15 MPa 0.8 MPaOperating pressure1.5 bar 8 barOperating pressure0.5 m/sRepetition accuracy <e 0.3="" mm<="" td="">Mode of operationDouble-actingOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1-low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to 150 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushoning length1.5 mmMax. force Fz325 NMax. torque Mx3 NmMax. torque Mx2.5 NmMax. torque Mx2.5 NmMax. torque Mx3.5 NmMax. torque Mx3.5 NmMax. torque Mx3.5 NmMax. torque Mx1.5 S NmTheoretical force at 6 bar, advancing60 NMoving mass103 g</e>  | Guide                                    | Recirculating ball bearing guide                                   |
| Symbol00991249Operating pressure0.15 MPa 0.8 MPaOperating pressure1.5 bar 8 barOperating pressure21.75 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm   | Structural design                        | Yoke<br>Piston rod   |
| Operating pressure0.15 MPa 0.8 MPaOperating pressure1.5 bar 8 barOperating pressure21.75 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm   | Position sensing                         | For proximity sensor   |
| Operating pressure1.5 bar 8 barOperating pressure21.75 psi 116 psiMax. speed0.5 m/sRepetition accuracy<= 0.3 mm   | Symbol                                   | 00991249   |
| InterventionInterventionOperating pressure21.75 psi 116 psiMax. speed0.5 m/sRepetition accuracy(= 0.3 mmMode 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 stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. torque Mx3 NmMax. torque Mx3 NmMax. torque Mx2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g  | Operating pressure                       | 0.15 MPa 0.8 MPa   |
| Max. speed0.5 m/sRepetition accuracy<= 0.3 mm   | Operating pressure                       | 1.5 bar 8 bar  |
| Repetition accuracy(= 0.3 mmMode 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 stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmMax. torque Mz2.5 NmMax. torque Mz1.5 mmMax. torque Mz1.0 °C 60 °CMax. torque Mz1.0 °C 60 °CMax. torque Mz3 NmMax. torque Mz1.5 mmMax. torque Mz1.5 NmMax. torque  | Operating pressure                       | 21.75 psi 116 psi  |
| Node 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 stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmMax. torque Mz2.5 NmMax. torque Mz0.5 NmMax. torque Mz1.5 mmMax. torque Mz1.5 NmMax. torque Mz1.5 NmMax. torque Mz3 NmMax. torque Mz1.5 Nm<  | Max. speed                               | 0.5 m/s  |
| Operating 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 stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting60 NMoving mass103 g  | Repetition accuracy                      | <= 0.3 mm  |
| Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 · Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. torque Mx3 NmMax. torque Mx2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting60 NMoving mass103 g  | Mode of operation                        | Double-acting  |
| Corrosion resistance class (CRC)1 · Low corrosion stressLABS (PWIS) conformityVDMA24364·B1/B2·LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting60 NMoving mass103 g  | Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| LABS (PWIS) conformityVDMA24364-B1/B2-LCleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting60 NMoving mass103 g  | Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Cleanroom classClass 6 according to ISO 14644-1Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g  | Corrosion resistance class (CRC)         | 1 - Low corrosion stress   |
| Ambient temperature-10 °C 60 °CImpact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | LABS (PWIS) conformity                   | VDMA24364-B1/B2-L  |
| Impact energy in the end positions0.03 JCushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g  | Cleanroom class                          | Class 6 according to ISO 14644-1                                   |
| Cushioning length1.5 mmMax. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g  | Ambient temperature                      | -10 °C 60 °C   |
| Max. force Fy325 NMax. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Impact energy in the end positions       | 0.03 J   |
| Max. force Fz325 NMax. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Cushioning length                        | 1.5 mm   |
| Max. torque Mx3 NmMax. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Max. force Fy                            | 325 N  |
| Max. torque My2.5 NmMax. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Max. force Fz                            | 325 N  |
| Max. torque Mz2.5 NmTheoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Max. torque Mx                           | 3 Nm   |
| Theoretical force at 6 bar, retracting45 NTheoretical force at 6 bar, advancing60 NMoving mass103 g   | Max. torque My                           | 2.5 Nm   |
| Theoretical force at 6 bar, advancing 60 N   Moving mass 103 g  | Max. torque Mz                           | 2.5 Nm   |
| Moving mass 103 g   | Theoretical force at 6 bar, retracting   | 45 N   |
|   | Theoretical force at 6 bar, advancing    | 60 N   |
| Product weight 200 g  | Moving mass                              | 103 g  |
|   | Product weight                           | 200 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<br>TPE-E<br>High-alloy steel |
| Housing material     | Wrought aluminum alloy           |
| Piston rod material  | High-alloy stainless steel       |