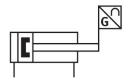
Linear drive DFPI-160- -ND2P-E-NB3P Part number: 2208573

FESTO





Data sheet

| Feature | Value |
|--|--|
| Size of valve actuator | 160 |
| Stroke | 40 mm990 mm |
| Piston diameter | 160 mm |
| Based on standard | ISO 15552 |
| Cushioning | No cushioning |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Design | Piston Piston rod Tie rod Cylinder barrel |
| Position detection | With integrated displacement encoder |
| Functional principle of measuring system | Potentiometer |
| Operating pressure | 0.3 MPa0.8 MPa 3 bar8 bar 43.5 psi116 psi |
| Nominal operating pressure | 0.6 MPa 6 bar |
| Operational voltage range DC | 0 V15 V |
| Recommended wiper current | 0.1 μΑ |
| Max. wiper current, short-time | 10 mA |
| CE mark (see declaration of conformity) | To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection | Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb |
| Explosion ignition protection type for dust | Ex h IIIC T120°C Db |
| Explosion ambient temperature | -20°C <= Ta <= +60°C |

| Feature | Value |
|--|--|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested to severity level 2 |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C80 °C |
| Relative air humidity | 5 - 100% Condensing |
| Degree of protection | IP65 IP67 IP69K NEMA 4 |
| Vibration resistance to DIN/IEC 68 Part 2-6 | Tested to severity level 2 |
| Ambient temperature | -20 °C80 °C |
| Impact energy in end positions | 1.4 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 11581 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 12064 N |
| Air consumption on return stroke per 10 mm | 1.351 |
| Air consumption on advance stroke per 10 mm | 1.407 |
| Moving mass for 0 mm stroke | 3700 g |
| Additional moving mass per 10 mm stroke | 89 g |
| Basic weight for 0 mm stroke | 12800 g |
| Additional weight per 10 mm stroke | 200 g |
| Hysteresis | 0.33 mm |
| Non-dependent linearity | ±0.04% |
| Repetition accuracy in ± mm | 0.12 mm |
| Electrical connection | 3-pin Straight plug connector/screw terminal With specific accessories |
| Pneumatic connection | For tubing O.D. 8 mm With specific accessories |
| Note on materials | RoHS-compliant |
| Material end cap | Coated wrought aluminium alloy |
| Material underneath cover | Die-cast aluminium, coated |
| Material electrical connection | Nickel-plated brass |
| Material piston rod | High-alloy stainless steel |
| Material piston rod wiper | NBR |
| Material tubing | PE |
| Material screws | Coated steel High-alloy stainless steel |
| Material static seals | NBR |
| Material fitting | Nickel-plated brass |
| Material tie rod | High-alloy stainless steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |