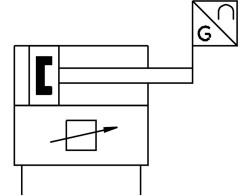
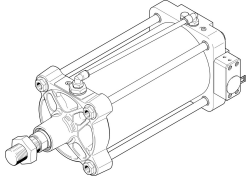


Linear drive DFPI-160- -ND2P-C1V-NB3P-A

Part number: 2201101

FESTO



Data sheet

| Feature | Value |
|--|--|
| Size of valve actuator | 160 |
| Stroke | 40 mm...990 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 |
| Reverse polarity protection | Initialisation connection For operating voltage For setpoint value |
| Operating pressure | 0.3 MPa...0.8 MPa 3 bar...8 bar 43.5 psi...116 psi |
| Nominal operating pressure | 0.6 MPa 6 bar 87 psi |
| Analogue output | 4 - 20 mA |
| Operational voltage range DC | 21.6 V...26.4 V |
| Max. current consumption | 220 mA |
| Nominal operating voltage DC | 24 V |
| Setpoint value input | 4 mA...20 mA |
| Approval | RCM trademark |
| KC mark | KC-EMV |
| CE mark (see declaration of conformity) | To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive |

| Feature | Value |
|--|--|
| CE marking (see declaration of conformity) | To UK instructions for EMC To UK EX instructions To UK RoHS instructions |
| Explosion protection certification outside the EU | EPL Dc (GB) EPL Gc (GB) |
| Explosion protection | Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (ATEX) Zone 22 (UKEX) |
| ATEX category gas | II 3G |
| ATEX category dust | II 3D |
| Explosion ignition protection type for gas | Ex ec IIC T4 X Gc |
| Explosion ignition protection type for dust | Ex tc IIIC T120°C X Dc |
| Explosion ambient temperature | -5°C ≤ Ta ≤ +50°C |
| 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 | -5 °C...50 °C |
| Media temperature | -5 °C...40 °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 | -5 °C...50 °C |
| 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 l |
| Air consumption on advance stroke per 10 mm | 1.407 l |
| Moving mass for 0 mm stroke | 3700 g |
| Additional moving mass per 10 mm stroke | 89 g |
| Basic weight for 0 mm stroke | 14330 g |
| Additional weight per 10 mm stroke | 200 g |
| Analogue output accuracy | 1 %FS |
| Dead zone size | 1 %FS |
| Hysteresis in ± %FS | 1 %FS |
| Positioning accuracy | 1.0 %FS |
| Repetition accuracy in ± %FS | 1 %FS |
| Electrical connection | 5-pin Straight plug connector/screw terminal With specific accessories |
| Pneumatic connection | For tubing O.D. 8 mm For tubing outside diameter of 10 mm With specific accessories |
| Note on materials | RoHS-compliant |
| Material end cap | Coated wrought aluminium alloy |
| Material underneath cover | Die-cast aluminium, coated |
| Material piston rod | High-alloy stainless steel |
| Material piston rod wiper | NBR |
| Material screws | Coated steel High-alloy stainless steel |
| Material static seals | NBR |
| Material tie rod | High-alloy stainless steel |

| Feature | Value |
|--------------------------|---|
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |