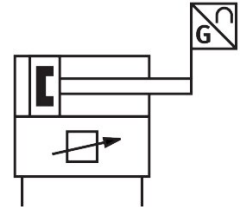


Linear drive DFPI-125- -ND2P-C1V-NB3P-R-A

Part number: 4588636

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Size of valve actuator | 125 |
| Stroke | 40 mm ... 990 mm |
| Piston diameter | 125 mm |
| Based on standard | ISO 15552 |
| Cushioning | No cushioning |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Design | Piston Piston rod Tie rod 1 Cylinder barrel |
| Position detection | Via integrated displacement encoder |
| Symbol | 00992806 |
| 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 |
| Operating pressure | 3 bar ... 8 bar |
| Operating pressure | 43.5 psi ... 116 psi |
| Nominal operating pressure | 0.6 MPa |
| Nominal operating pressure | 6 bar |
| Nominal operating pressure | 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 |
| 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 |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |

| Feature | Value |
|--|--|
| 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 | 6881 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 7363 N |
| Air consumption on return stroke per 10 mm | 0.803 l |
| Air consumption on advance stroke per 10 mm | 0.859 l |
| Moving mass for 0 mm stroke | 1900 g |
| Additional moving mass per 10 mm stroke | 53 g |
| Basic weight for 0 mm stroke | 7950 g |
| Additional weight per 10 mm stroke | 134 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 | 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 |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |