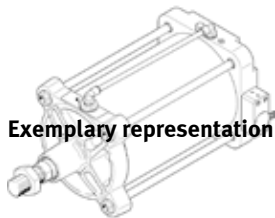
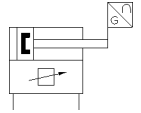


Linear actuator DFPI-200- -ND2P-C1V-NB3P-A

Part number: 2206373

FESTO

with integrated electropneumatic positioner, double-acting, piston diameter 200 mm, fastening interfaces for fittings according to ISO 15552 on bearing and end caps, electric/pneumatic connection via metallic flange-type socket and connecting cable NHSB (accessories), 4-line, 24 VDC power supply, setpoint input 4...20 mA, position feedback signal 4...20 mA, advancing piston rod safety position.



Exemplary representation

Data sheet

| Feature | Value |
|---|---|
| Size of actuator | 200 |
| Stroke | 40 ... 990 mm |
| Piston diameter | 200 mm |
| Based on the standard | ISO 15552 |
| Cushioning | No cushioning |
| Assembly position | Any |
| Mode of operation | double-acting |
| Design structure | Piston Piston rod Tie rod Cylinder barrel |
| Position detection | With integrated displacement encoder |
| Measuring method: displacement encoder | Potentiometer |
| Polarity protected | for operating voltage for set point value Initialization connection |
| Operating pressure MPa | 0.3 ... 0.8 MPa |
| Working pressure | 3 ... 8 bar |
| Operating pressure | 43.5 ... 116 psi |
| Nominal operating pressure | 0.6 MPa |
| Nominal working pressure | 6 bar |
| Nominal operating pressure (psi) | 87 psi |
| Analog output | 4 - 20 mA |
| Operating voltage range DC | 21.6 ... 26.4 V |
| Max. current consumption | 220 mA |
| Nominal operating voltage DC | 24 V |
| Setpoint input | 4 ... 20 mA |
| Authorization | RCM Mark |
| KC mark | KC-EMV |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline according to EU-Ex protection guideline (ATEX) in accordance with EU RoHS directive |
| UKCA 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) |
| ATEX category Gas | II 3G |
| ATEX category Dust | II 3D |
| Explosion ignition protection type Gas | Ex ec IIC T4 X Gc |

| Feature | Value |
|--|--|
| Explosion ignition protection type Dust | Ex tc IIIC T120°C X Dc |
| Explosion-proof ambient temperature | -5 °C ≤ Ta ≤ +50°C |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Continuous shock resistance per DIN/IEC 68, parts 2 - 82 | Tested in accordance with severity level 2 |
| PWIS conformity | VDMA24364 zone III |
| Storage temperature | -5 ... 50 °C |
| Medium temperature | -5 ... 40 °C |
| Relative air humidity | 5 - 100 % Condensing |
| Protection class | IP65 IP67 IP69K NEMA 4 |
| Vibration resistance per DIN/IEC 68, parts 2 - 6 | Tested in accordance with severity level 2 |
| Ambient temperature | -5 ... 50 °C |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 18,080 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 18,850 N |
| Air consumption returning per 10 mm stroke | 2.111 l |
| Air consumption advancing per 10 mm stroke | 2.199 l |
| Moving mass with 0 mm stroke | 4,800 g |
| Additional mass factor per 10 mm of stroke | 89 g |
| Basic weight for 0 mm stroke | 20,410 g |
| Additional weight per 10 mm stroke | 238 g |
| Accuracy of analogue output | 1 %FS |
| Size of the dead zone | 1 %FS |
| Hysteresis FS | 1 %FS |
| Positioning accuracy | 1.0% FS |
| Repetition accuracy in ± %FS | 1 %FS |
| Electrical connection | 5-pin Straight plug / screw terminal With specific accessories |
| Pneumatic connection | For tubing outside diameter 8 mm For tubing outside diameter 10 mm With specific accessories |
| Materials note | Conforms to RoHS |
| Material of end caps | Coated wrought aluminium alloy |
| Material underneath cover | Coated die-cast aluminium |
| Material piston rod | High alloy steel, non-corrosive |
| Material piston rod wiper seal | NBR |
| Material screws | Coated steel High alloy steel, non-corrosive |
| Material static seals | NBR |
| Material tie rod | High alloy steel, non-corrosive |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |