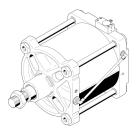
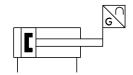
## Linear drive DFPI-320--ND2P-E-NB3P

Part number: 2186271







## **Data sheet**

| Value  |
|--|
| 320  |
| 40 mm990 mm  |
| 320 mm   |
| ISO 15552  |
| No cushioning  |
| optional   |
| Double-acting Double-acting  |
| Piston Piston rod Tie rod Cylinder barrel  |
| With integrated displacement encoder   |
| Potentiometer  |
| 0.3 MPa0.8 MPa<br>3 bar8 bar<br>43.5 psi116 psi  |
| 0.6 MPa<br>6 bar   |
| 0 V15 V  |
| 0.1 μΑ   |
| 1000000000000 mA   |
| To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive |
| To UK EX instructions  |
| Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  |
| II 2G  |
| II 2D  |
| Ex h IIC T4 Gb   |
| Ex h IIIC T120°C Db  |
| -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%<br>Condensing   |
| Degree of protection   | IP65<br>IP67<br>IP69K<br>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                               | 2.4 J  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 46385 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 48255 N  |
| Air consumption on return stroke per 10 mm                   | 5.412 l  |
| Air consumption on advance stroke per 10 mm                  | 5.63   |
| Moving mass for 0 mm stroke                                  | 16500 g  |
| Additional moving mass per 10 mm stroke                      | 227 g  |
| Basic weight for 0 mm stroke                                 | 57700 g  |
| Additional weight per 10 mm stroke                           | 582 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<br>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  |