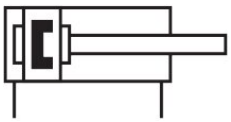
# Linear drive
# DFPC-250-200-D-V4EX4-33E-49S-M16P-W2

Part number: 8172153





## Data sheet

| Feature | Value |
|---|---|
| Size of valve actuator | 250 |
| Flange hole pattern | F10<br>F14 |
| Stroke | 200 mm |
| Piston diameter | 250 mm |
| Fitting connection conforms to standard | ISO 5210 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Design | Piston<br>Piston rod<br>Tie rod 1<br>Cylinder barrel |
| Position detection | Via proximity switch |
| Variants | EX protection approval (ATEX)<br>Custom thread on the piston rod<br>Piston rod with male thread shortened at one end<br>Extended piston rod |
| Operating pressure | 0.25 MPa...0.8 MPa<br>2.5 bar...8 bar<br>36.25 psi...116 psi |
| Nominal operating pressure | 0.6 MPa<br>6 bar<br>87 psi |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |

| Feature | Value |
|---|---|
| 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 <= +80°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) |
| Vibration resistance | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in end positions | 6 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 28698 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 29452 N |
| Air consumption on return stroke per 10 mm | 3.348 l |
| Air consumption on advance stroke per 10 mm | 3.436 l |
| Moving mass for 0 mm stroke | 5600.4 g |
| Additional moving mass per 10 mm stroke | 105.31 g |
| Product weight | 2610 g |
| Basic weight for 0 mm stroke | 19296.54 g |
| Additional weight per 10 mm stroke | 335.51 g |
| Type of mounting | Either:<br>on flange according to ISO 5210<br>With spacer bolt |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS compliant |
| Material cover | Gravity die-cast aluminium<br>Aluminium |
| Material piston rod | High-alloy stainless steel |
| Material piston rod wiper | TPE-U(PU) |
| Material nut | High-alloy stainless steel |
| Material static seals | NBR |
| Material tie rod | High-alloy stainless steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |