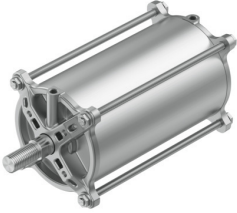


Linear actuator

DFPC-160-200-D-V4EX4-39E-31S-M16P-W2

FESTO

Part number: 8172143



Data sheet

| Feature | Value |
|---|--|
| Size of valve actuator | 160 |
| Flange hole pattern | F10 |
| Stroke | 200 mm |
| Piston diameter | 160 mm |
| Standard connection for valve | ISO 5210 |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Structural design | Piston Piston rod Tie rod Cylinder barrel |
| Position sensing | For proximity sensor |
| Variants | EX protection approval (ATEX) Special thread on piston rod Piston rod with external thread shortened at one end Extended piston rod |
| Operating pressure | 0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi |
| Nominal operating pressure | 0.6 MPa 6 bar 87 psi |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| UKCA marking (see declaration of conformity) | acc. to UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion prevention and protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category for dust | II 2D |
| Type of ignition protection for gas | Ex h IIC T4 Gb |

| Feature | Value |
|---|--|
| Type of (ignition) protection for dust | Ex h IIIC T120°C Db |
| Explosive ambient temperature | -20°C ≤ Ta ≤ +80°C |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 3.3 J |
| Theoretical force at 6 bar, retracting | 11581 N |
| Theoretical force at 6 bar, advancing | 12064 N |
| Air consumption, retracting, per 10 mm stroke | 1.351 l |
| Air consumption advancing per 10 mm stroke | 1.407 l |
| Moving mass at 0 mm stroke | 2102 g |
| Additional moving mass per 10 mm stroke | 64.34 g |
| Product weight | 8920 g |
| Basic weight with 0 mm stroke | 5948.7 g |
| Additional weight per 10 mm stroke | 148.61 g |
| Type of mounting | Optionally: On flange as per ISO 5210 With spacer bolt |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Cover material | Gravity die-cast aluminum |
| Piston rod material | High-alloy stainless steel |
| Piston rod wiper material | TPE-U(PU) |
| Nut material | High-alloy stainless steel |
| Static seal material | NBR |
| Tie rod material | High-alloy stainless steel |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized |