

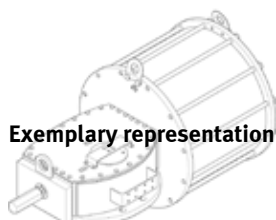
Semi-rotary actuator

DFPD-HD-32000-

Part number: 8042203

FESTO

Heavy-duty version, rack and pinion design, connection pattern according to NAMUR VDI/VDE 3845 for mounting position sensors and positioners, standard connection to fitting ISO 5211.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Size of actuator | 32000 |
| Flange hole pattern | F35 |
| Piston diameter | 385 mm 435 mm 485 mm 535 mm 585 mm 635 mm 685 mm 735 mm |
| Swivel angle | 90 deg |
| End-position adjustment range at 0° | -5 ... 5 deg |
| End-position adjusting range at nominal swivel angle | -5 ... 5 deg |
| Shaft connection depth | 230 mm |
| Fitting connection conforms to standard | ISO 5211 |
| Cushioning | No cushioning |
| Assembly position | Any Horizontal |
| Mode of operation | double-acting single-acting |
| Design structure | Yoke kinematics |
| Position detection | Optical |
| Closing direction | right-closing Closes to the left |
| Certified for safety function to ISO 13849 and IEC 61508 (SIL) | Product can be used in SRP/CS up to SIL 2 low demand |
| Operating pressure MPa | 0.1 ... 0.85 MPa |
| Working pressure | 1 ... 8.5 bar |
| Operating pressure | 14.5 ... 123.25 psi |
| Nominal operating pressure | 0.3 ... 0.7 MPa |
| Nominal working pressure | 3 ... 7 bar |
| Nominal operating pressure (psi) | 43.5 ... 101.5 psi |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Certificate issuing department | TÜV Nord 212170802 |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | Ex h IIB T6...T4 Gb X |
| Explosion ignition protection type Dust | Ex h IIC T85°C...T105°C Db X |
| Explosion-proof ambient temperature | -20°C ≤ Ta ≤ +80°C |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |

| Feature | Value |
|---|--|
| Note on operating and pilot medium | Pressure dew point 10°C below ambient temperature/temperature of medium Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| Protection class | IP66M IP67M |
| Ambient temperature | -20 ... 80 °C |
| Note about the torque | The operating torque of the actuator must not be higher than the maximum permissible torque listed in ISO 5211, with reference to the size of the mounting flange and of the coupling. |
| Max. output torque | 32,000 Nm |
| Product weight | 408 ... 1,498 g |
| Shaft connection | V120 |
| Pneumatic connection | G1 |
| Materials note | Conforms to RoHS |
| Material of end caps | Steel |
| Material stop screw | Steel |
| Material bushing | Bronze PTFE |
| Material seals | NBR TPE-U(PU) |
| Material spring | Spring steel |
| Material spring rod | Hard-chrome-plated steel |
| Material housing | Steel |
| Material piston | Steel |
| Material piston rod | Hard-chrome-plated steel |
| Material tie rod | Steel |
| Material cylinder barrel | Steel, nickel-plated |